



ARMY REGULATIONS, INDIA

BARRACK SYNOPSIS

(INDIA)

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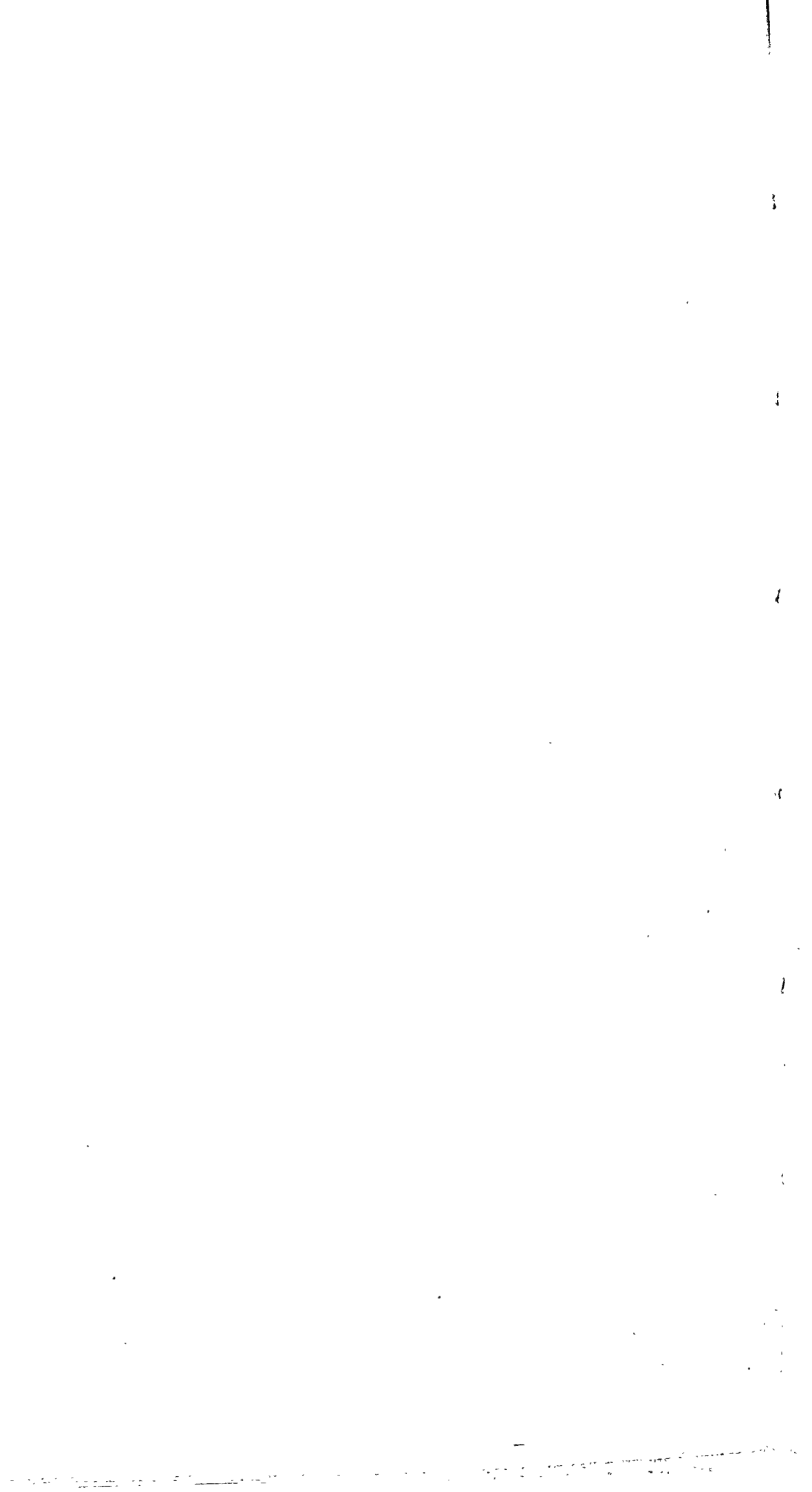
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PREFACE.

The Barrack Synopsis (India) contains the orders of the Government of India regarding the scales of accommodation authorized for the Army in India. The rules contained in this Synopsis are to be read in conjunction with the Regulations for the M. E. S.

G. M. YOUNG,
Secretary to the Government of India.

(Corrected up to 31st December, 1929.)



INTRODUCTORY NOTE.

This Synopsis in many respects differs considerably from Barrack Synopsis (India), 1925.

The information comprised in Barrack Synopsis (India), 1925, was collected from various sources with the result that some of the scales given for similar classes of buildings differ widely from one another, and many of the instructions are either inapplicable or redundant.

Another difficulty to be found in Barrack Synopsis (India), 1925, is that scales of accommodation have been laid down for specific units, with the result that such scales require amendment whenever a change takes place in the establishment of the unit. In the past such amendments have seldom been carried out and a considerable proportion of the scales are consequently inapplicable to the present establishments of the Units concerned.

The principal changes which have been made when writing Barrack Synopsis, 1930, are as follows:—

- a) The “ Schedule of Accommodation Authorised ”, at the beginning of this Synopsis, has been considerably simplified. Specific units are not mentioned and only the general titles “ Cavalry ”, “ Royal Artillery ”, “ Infantry ”, etc., are given.

This Schedule does not convey any authority for the provision of accommodation, nor does an omission from the Schedule debar a unit from being given the accommodation authorised for it by one of the subsequent paragraphs of this Synopsis.

For example:—

Neither Military Hospitals nor Veterinary Buildings are included in the Schedule as the accommodation authorised for these is given fully in Sections IX and X.

The Schedule is intended solely to assist the engineer officer when framing an estimate by informing him of the paragraphs in this Synopsis to which he should refer in order to ascertain what accommodation (if any) is authorised for the unit to be accommodated.

- (b) All Auxiliary Buildings and Works which are for General or Station use (as opposed to those for the use of individual Units) are grouped together in Section VIII.

- (c) Wherever possible scales of accommodation have been laid down “ per man ”, “ per horse ”, “ per rifle ”, “ per 4 or 6 wheeled motor vehicle ”, etc., etc., on the authorised Peace Establishment of the Unit as sanctioned by the Government of India from time to time. This system has the following advantages:—

- (i) It ensures that similar scales are given to all Units of the same class.

- (ii) It avoids the necessity of amending Barrack Synopsis whenever the establishment of a particular unit is changed.

NOTE 1.—The scales laid down in this Synopsis are to some extent experimental and it is the duty of all officers, when using these scales, to make a report at once regarding any scales which are found in practice to be either excessive or inadequate. If this is done in all cases it is hoped that some degree of finality will have been arrived at before the next revision of Barrack Synopsis (India) is undertaken.

NOTE 2.—The Administrative Authority who calls for an estimate is responsible for furnishing any particulars regarding the authorised establishment of the unit or units concerned which may be required by the engineer authority who is framing the estimate.

- (d) The discrimination between "Very Hot Plains" and "Normal Plains" has been abolished. It is considered that the conditions in Plains Stations over the whole of India differ so widely that the type of roof and other sun protection, etc., adopted in each station must be left to the discretion of local authorities.
- (e) In order that the various heights of buildings should be arranged on a logical system a special Appendix (Appendix C) has been added classifying the heights of all buildings.
This Appendix should be easy to refer to as the heights of all buildings are given paragraph by paragraph. Allowance has been made for increases to the heights laid down which are necessitated by engineering reasons.
- (f) Appendix D—Scales of Water Supplies and Appendix E—Scales of Electric Lighting and Ventilation have been transferred to this Synopsis from Regulations for the M. E. S.
- (g) Appendix F, "Type Plans", introduces a new and simpler system of numbering Type Plans.
- (h) The scales contained in this Synopsis apply principally to new construction and increases in scales authorised herein will not necessarily be applied to existing buildings.
In cases where the Administrative Authority concerned considers it essential to apply such increases to existing buildings they will be treated as authorised works.

ABBREVIATIONS.

A. H. Q.	Army Headquarters.
Bn.	Battalion.
Bde.	Brigade.
C. F. A.	Competent Financial Authority.
Coy.	Company.
cu. ft.	Cubic Feet.
Dept.	Department.
ft.	Foot (or feet).
G. O. C. Dist.	Commander, District or Independent Brigade area.
Govt.	Government.
G. of I.	Government of India.
H. Q.	Headquarters.
I. A. O. C.	Indian Army Ordnance Corps.
I. M. D.	Indian Medical Department.
I. U. L.	India Unattached List.
M. T.	Mechanical Transport.
M. E. S.	Military Engineer Services.
N. C. O.	Non-Commissioned Officer.
N. W. F. P.	North-West Frontier Province.
Para.	Paragraph.
R. A.	Royal Artillery.
R. A. M. C.	Royal Army Medical Corps.
R. E.	Royal Engineers.
Regt.	Regiment.
S. and M.	Sappers and Miners.
S. A. A.	Small Arms Ammunition.
s. ft.	Square Feet.
S. and T.	Supply and Transport.
W. O.	Warrant Officer.



SCHEDULE OF ACCOMMODATION AUTHORIZED.

	Para.	1 to 6.	7 to 12	13 to 14	15 to 16
	Pages.	1—27	28—36	37—40	41—44
Units.		British Type Quarters.	British Troops Barracks and Sub- sidary Buildings.	Officers' Messes.	Sergeants' Messes.
<i>British—</i>					
1. Cavalry		×	×	×	×
2. Royal Artillery		×	×	×	×
3. Infantry		×	×	×	×
4. Royal Tank Corps		×	×	×	×
5. Auxiliary Force (India)		(a)	(b)	..	..
<i>Indian—</i>					
6. Cavalry		×
7. Mountain Battery, R. A.		×
8. Sappers and Miners		×
9. Indian Signal Corps		×
10. Infantry
11. Engineers		×
12. I. A. S. C.
13. I. A. O. C.
14. Indian Territorial Force

(a) Permanent quarters—see para. 6, 12.

(b) Temporary quarters—see para. 7, 13, 14.

Accommodation Authorised.

	17 to 20	21 to 25	26	27	28	29	30	31
	45—50	51—54	56—62	62—63	63—65	66—69	70—72	72—73
	Indian Type Quarters.	Indian Troops Barracks and Subsidiary Accom- modation.	Insti- tutes— British Troops.	Prayer Rooms— British Troops.	Schools.	Offices.	Guards and picquets— British Troops.	Guards and picquets— Indian Troops.
1	..	×	×	×	×	×	×	..
2	×	×	×	×	×	×	×	..
3	×	×	×	×	×	×	×	..
4	×	×	×	..	×	×	×	..
5	..	..	..	..	..	×	..	..
6	×	×	..	..	×	×	..	×
7	×	×	..	..	×	×	..	×
8	×	×	..	..	×	×	..	×
9	×	×	×	..	×	×	..	×
10	×	×	..	..	×	×	..	×
11	×	×	..	..	×	×	..	×
12	×	×	..	..	×	×	..	×
13	×	×	..	..	..	..	..	×
14	(c)	..	..	..	..	×	..	..

Para.	1 to 6.	7 to 12	13 to 14	15 to 16
Page.	1—27	28—36	37—40	41—44
Units.	British Type Quarters.	British Troops Barracks and Sub- sidiary Buildings.	Officer's Messes.	Sergeants' Messes.
<i>British—</i>				
1. Cavalry	×	×	×	×
2. Royal Artillery	×	×	×	×
3. Infantry	×	×	×	×
4. Royal Tank Corps	×	×	×	×
5. Auxiliary Force (India)	(a)	(b)	..	..
<i>Indian—</i>				
6. Cavalry	×	..	×	..
7. Mountain Battery, R. A.	×	..	×	×
8. Sappers and Miners	×	×	×	×
9. Indian Signal Corps	×	×	×	×
10. Infantry	×	..	×	×
11. Engineers	×	..	×	×
12. I. A. S. C.	×	×	×	×
13. I. A. O. C.	×	..	×	×
14. Indian Territorial Force . . . . .	..	..	×	×

(a) Barracks and Quarters—see para. 1, 2, 3, 4, 5.

(b) Barracks and Quarters—see para. 1, 2, 3, 4, 5.

Accommodation Authorised.

	17 to 20	21 to 25	26	27	28	29	30	31
	45—50	51—54	56—62	62—63	63—65	66—69	70—72	72—75
	Indian Type Quarters.	Indian Troops Barracks and Subsidiary Accom- modation.	Insti- tutes— British Troops.	Prayer Rooms— British Troops.	Schools.	Offices.	Guard and Quartermaster Troops.	Guard and Quartermaster Troops.
1	..	×	×	×	×	✓	✓	—
2	×	×	×	×	×	✓	✓	..
3	×	×	×	×	×	✓	✓	..
4	×	×	×	..	×	✓	✓	..
5	..	..	..	..	..	✓	..	..
6	×	×	..	..	×	✓	✓	✓
7	×	×	..	..	✓	✓	..	✓
8	×	×	..	..	✓	✓	..	✓
9	×	×	×	..	✓	✓	..	✓
10	×	×	..	..	✓	✓	..	✓
11	×	×	..	..	✓	✓	..	✓
12	×	×	..	..	✓	✓	..	✓
13	×	×	..	..	✓	✓	..	✓
14	(c)	..	..	..	..	..	..	✓

Para.	41	43	45	47	48
Page.	90—91	91—92	92	93	94
Units.	Harness Rooms.	Grain, Hay, and Rheum Stores.	Managers.	Forges and sliding Studs.	Vehicle Stores.
<i>British—</i>					
1. Cavalry	X	..	X	X	..
2. Royal Artillery	X	..	X	X	..
3. Infantry	X	..	..	..	..
4. Royal Tank Corps . . .	..	..	..	..	..
6. Auxiliary Force (India) .	..	..	X	..	..
<i>Indian—</i>					
6. Cavalry	X	X	..	..	..
7. Mountain Battery B. A. .	X	X	..	..	..
8. Sappers and Miners . .	X	X	..	..	..
9. Indian Signal Corps . .	X	X	..	..	..
10. Infantry	X	X	..	..	..
11. Engineers	X	X	..	..	..
12. I. A. S. C.	X	X	..	..	..
13. I. A. S. C. . . . .	..	..	..	..	..
14. I. A. S. C. . . . .	..	..	..	..	..

Class.	For whom constructed.
VI.	<p>Ordnance civilian personnel—<i>contd.</i></p> <p>Principal foremen of factories.</p> <p>Foremen.</p> <p>Chief ordnance examiners.</p> <p>Ordnance examiners.</p> <p>Chief carriage examiners.</p> <p>Carriage examiners.</p> <p>Storeholders.</p>
VII.	<p>Senior W. O.'s. Including—</p> <p>I. U. L. W. O.'s.</p> <p>Schoolmistresses.</p> <p>Class I. W. O.'s of Regiments.</p> <p>W. O.'s of the Indian Corps of Clerks (British Wing).</p> <p>Managers of officers' hostels.</p> <p>Civilian farm overseers, Army Remount Dept.</p> <p>Managers of dairy farms other than those mentioned under class VI (Note 1).</p> <p>W. O.'s employed in grass farms as managers, assistant managers, and overseers (Note 1).</p> <p>Military (W. O.'s) and civilian sub-divisional officers of the M. E. S. (Note 1).</p> <p>Military sub-divisional officers of the M. E. S. (N. C. O.'s).</p> <p>N. C. O.'s employed in grass farms as managers and assistant managers, overseers and assistant overseers.</p>
VII.	<p>Ordnance civilian personnel:—</p> <p>Assistant foremen.</p> <p>Technical officers (non-gazetted) ranking as assistant foremen.</p> <p>Assistant storeholders.</p>
VIII.	<p>Junior W. O.'s and Departmental N. C. O.'s. Including—</p> <p>Class II W. O.'s of Regiments.</p> <p>I. U. L. N. C. O.'s.</p> <p>N. C. O.'s and men of the Indian Corps of Clerks (British Wing).</p> <p>Married staff sergeants.</p> <p>Ordnance personnel—Chargemen.</p>
IX.	<p>Regimental N. C. O.'s and men. Including—</p> <p>Married N. C. O.'s and men of regiments.</p> <p>Anglo-Indian mechanics employed at Radio stations.</p> <p>Family Hospital Matrons.</p>

Class.

For whom constructed.

X. Apprentices of Ordnance Factories.

NOTE 1.—In cases above marked “(Note 1)” quarters will be provided subject to the previous approval of the G. of I., except in the case of men who are entitled to free accommodation in accordance with Regulations for the M. E. S.

NOTE 2.—The scales of accommodation provided for each of the above “Classes” are further subdivided in accordance with the classification of stations according to climatic conditions (see Appendix A) under the following categories:—



- (i) Plains.
- (ii) Semi-hill.
- (iii) Hill.

2. British Type Quarters—Scales of accommodation.

(a) Class I.—Married Colonels and Lieutenant-Colonels. (Built detached.)

Detail.	(i) Plains.	(ii) Semi-hill.	(iii) Hill.
<i>Main Building—</i>			
Drawing room .	21½' × 17' (or 370 s. ft.)	18' × 17' (or 300 s. ft.)	17' × 17' (or 290 s. ft.).
Dining room .	21½' × 17' (or 370 s. ft.).	18' × 17' (or 300 s. ft.).	16' × 15' (or 240 s. ft.).
Bed rooms .	Two, each 17' × 17' (or 290 s. ft.). Two, each 17' × 15' (or 260 s. ft.).	Two, each 17' × 15' (or 260 s. ft.). Two, each 17' × 13½' (or 220 s. ft.).	One, 17' × 17' (or 290 s. ft.). One, 16' × 15' (or 240 s. ft.). Two, each 15' × 14' (or 210 s. ft.).
Passage . .	4' wide between bed rooms.	As in Column (i) .	..
Hall . . .	6' wide between drawing and dining rooms.	Ditto . .	8' wide through building, with staircase.
Verandah . .	10' clear width all round.	8' clear width all round.	6' clear width in front, ground floor only.
Dressing rooms .	Two, each 15' × 10' (or 150 s. ft.) in verandah (Height 12'—flat roof).	Two, each 14' × 8' (or 110 s. ft.) in verandah (Height 10'—flat roof).	One, 13' × 8' (or 100 s. ft.) under main roof. One, 10' × 10' (or 100 s. ft.).

(a) Class I.—Married Colonels and Lieutenant-Colonels—*contd.*

Detail.	(i) Plains.	(ii) Semi-hill.	(iii) Hill.
<i>Main Building— contd.</i>			
Study . . .	15'×10' (or 150 s. ft.) in verandah (Height 12'—flat roof).	15'×8' (or 120 s. ft.) in verandah (Height 10'—flat roof).	17'×13' (or 220 s. ft.) under main roof. 
Bath rooms— (i) Usual accom- modation.	Seven, each 10'×6' (or 60 s. ft.) in verandah.	Seven, each 8'×6' (or 50 s. ft.) in verandah.	Two, each 8'×6' (or 50 s. ft.) under main roof. Four, each 10'×6' (or 60 s. ft.). 
(ii) Special accom- modation where water borne sewage exists.	One for the principal bed room and one for every additional 2 bed rooms or frac- tion of that number. Each to be 8'×6' (48 s. ft.) and provided with a fixed slipper bath.	As in Column (i)	As in Column (i).
Water closets only where water borne sewage exists. (To be well ventilated and lighted).	One for the principal bed room and one for every 2 addi- tional bed rooms or fraction of that number. Each to be 18 s. ft. with flushing commode and cistern.	Ditto . . .	Ditto.
Sweepers stair and balcony.	....	....	Outside upper storey bath. rooms.
Porch . . .	20'×12' (or 240 s. ft.)	20'×12' (or 240 s. ft.)	8'×8' (or 60 s. ft.).
<i>Kitchen Block—</i>			
Pantry . . .	12'×12' (or 140 s. ft.)	12'×12' (or 140 s. ft.)	14'×10' (or 140 s. ft.).
Kitchen . . .	12'×12' (or 140 s. ft.)	12'×12' (or 140 s. ft.)	12'×10' (or 120 s. ft.).
Store . . .	12'×4' (or 50 s. ft.)	12'×4' (or 50 s. ft.)	10'×5' (or 50 s. ft.).
Fuel stores (1 each, for kitchen and household fuel).	Two, each 5½'×4' (or 20 s. ft.).	Two, each 5½'×4' (or 20 s. ft.).	Two, each 5½'×4' (or 20 s. ft.).
Cleaning room .	12'×6' (or 70 s. ft.) .	12'×6' (or 70 s. ft.) .	12'×5' (or 60 s. ft.).
Box room . . .	12'×6' (or 70 s. ft.) .	12'×6' (or 70 s. ft.) .	12'×6' (or 70 s. ft.).
Verandah . . .	4' clear width on one side of kitchen block.	4' clear width on one side of kitchen block.	4' clear width on one side of kitchen block.
Connecting pass- age.	4' wide, 6' long .	4' wide, 6' long .	..

Class I.—Married Colonels and Lieutenant-Colonels—*concl'd.*

Detail.	(i) Plains.	(ii) Semi-hill.	(iii) Hill.
<i>Out houses—</i>			
Servants quarters	Nine—Class G	Nine—Class G	Eight—Class G.
Coach house or garage.	One, $17\frac{1}{2}' \times 10'$	One, $17\frac{1}{2}' \times 10'$	..
Stables	Two stalls, each $12' \times 10'$ with $6'$ verandah in front.	Two stalls, each $12' \times 10'$ with $5'$ verandah in front.	Two stalls, each $12' \times 10'$ with $5'$ verandah in front.
Saddle room	$8' \times 6'$ (or 50 s. ft.)	$8' \times 6'$ (or 50 s. ft.)	$8' \times 6'$ (or 50 s. ft.).

Class II.—Married Majors (built detached).

Detail.	(i) Plains.	(ii) Semi-hill.	(iii) Hill.
<i>Main Building—</i>			
Drawing room	$24\frac{1}{2}' \times 16'$ (or 386 s. ft.).	$19' \times 16'$ (or 300 s. ft.).	$17' \times 17'$ (or 290 s. ft.).
Dining room	$20' \times 16'$ (or 320 s. ft.).	$19' \times 16'$ (or 300 s. ft.).	$17' \times 15'$ (or 260 s. ft.).
Bed rooms	Two, each $15' \times 20'$ (or 300 s. ft.). One, $15' \times 14\frac{7}{8}'$ (or 224 s. ft.).	Two, each $16\frac{3}{4}' \times 15\frac{1}{2}'$ (or 260 s. ft.). One, $16\frac{3}{4}' \times 13\frac{1}{2}'$ (or 220 s. ft.).	Two, each $17' \times 15'$ (or 260 s. ft.). One, $17' \times 13'$ (or 220 s. ft.).
Hall	$6'$ wide between dining and drawing rooms.	$6'$ wide between dining and drawing rooms.	$8'$ wide through building with stair case.
Passage	$4'$ wide from Hall between bed rooms.	..	..
Verandah	$10'$ clear width all round.	$8'$ clear width all round.	$6'$ clear width in front, ground floor only.
Dressing rooms	Two, each $15' \times 10'$ (or 150 s. ft.) in verandah (Height $12'$ —flat roof).	Two, each $14' \times 8'$ (or 110 s. ft.) in verandah (Height $10'$ —flat roof).	Two, each $13' \times 8'$ (or 100 s. ft.) under main roof.
Study	$15' \times 10'$ (or 150 s. ft.) in verandah (Height $12'$ —flat roof).	$15' \times 8'$ (or 120 s. ft.) in verandah (Height $10'$ —flat roof).	$17' \times 11'$ (or 190 s. ft.) under main roof.
Bath rooms— (i) Usual accommodation.	Six, each $10' \times 6'$ (or 60 s. ft.) in verandah.	Six, each $8' \times 6'$ (or 50 s. ft.) in verandah.	Four, each $8' \times 6'$ (or 50 s. ft.) under main roof. One, $10' \times 5'$ (or 50

(b) Class II.—Married Majors—*contd.*

Detail.	(i) Plains.	(ii) Semi-hill.	(iii) Hill.
<i>Main Building— contd.</i>			
Bath rooms— <i>contd.</i>			
(ii) Special accommodation where water borne sewage exists.	One for the principal bed room and one for every additional 2 bed rooms or fraction of that number. Each to be 8'×6' (or 48 s. ft.) and provided with a fixed slipper bath.	As in Column (i)	As in Column (i).
Water Closets only where water borne sewage exists. (To be well ventilated and lighted.)	One for the principal bed room and one for every 2 additional bed rooms or fraction of that number. Each to be 18 s. ft. with flushing commode and cistern.	Ditto	Ditto.
Sweepers stair and balcony.	....	....	Outside upper. storey bath rooms.
Porch	20'×12' (or 240 s. ft.)	20'×12' (or 240 s. ft.)	8'×8' (or 60 s. ft.).
<i>Kitchen Block—</i>			
Pantry	12'×12' (or 140 s. ft.)	12'×12' (or 140 s. ft.)	14'×10' (or 140 s. ft.).
Kitchen	12'×12' (or 140 s. ft.)	12'×12' (or 140 s. ft.)	12'×10' (or 120 s. ft.).
Store	12'×4' (or 50 s. ft.)	12'×4' (or 50 s. ft.)	10'×5' (or 50 s. ft.).
Fuel stores (1 each for kitchen and household fuel).	Two, each 5½'×4' (or 20 s. ft.).	Two, each 5½'×4' (or 20 s. ft.).	Two, each 5½'×4' (or 20 s. ft.).
Cleaning room	12'×6' (or 70 s. ft.)	12'×6' (or 70 s. ft.)	12'×5' (or 60 s. ft.).
Box room	12'×6' (or 70 s. ft.)	12'×6' (or 70 s. ft.)	12'×6' (or 70 s. ft.).
Verandah	4' clear width on one side of kitchen block.	4' clear width on one side of kitchen block.	4' clear width on one side of kitchen block.
Connecting passage.	4' wide, 6' long	4' wide, 6' long	..
<i>Out houses—</i>			
Servants quarters	Nine—Class G	Nine—Class G	Eight—Class G.
Coach house or garage.	One, 17½'×10'	One, 17½'×10'	..
Stables	Two stalls, each 12'×10' with 6' verandah in front.	Two stalls, each 12'×10' with 5' verandah in front.	Two stalls, each 12'×10' with 5' verandah in front.
Saddle room	8'×6' (or 50 s. ft.)	8'×6' (or 50 s. ft.)	8'×6' (or 50 s. ft.).

(c) Class III.—Married Captains and Subalterns (built detached).

Detail.	(i) Plains.	(ii) Semi-hill.	(iii) Hill.
<i>Main Building—</i>			
Drawing room .	18' × 16' (or 288 s. ft.)	16' × 16' (or 260 s. ft.)	15½' × 15½' (or 240 s. ft.).
Dining room .	18' × 16' (or 288 s. ft.)	16' × 16' (or 260 s. ft.)	15½' × 15½' (or 240 s. ft.).
Bed rooms .	Two, each 19' × 15' (or 285 s. ft.).	Two, each 16' × 16' (or 260 s. ft.).	Two, each 15½' × 13' (or 200 s. ft.).
Hall . . .	6' wide between drawing and dining rooms.	....	8' wide through building with stair case.
Passage . .	4' wide between bed rooms.	....	..
Verandah . .	10' clear width all round.	8' clear width all round.	6' clear width in front ground floor only.
Dressing rooms .	Two, each 15' × 10' (or 150 s. ft.) in verandah (Height 12'—flat roof).	Two, each 14' × 8' (or 110 s. ft.) in verandah (Height 10'—flat roof).	Two, each 12' × 8' (or 100 s. ft.) under main roof.
Study . . .	15' × 10' (or 150 s. ft.) in verandah (Height 12'—flat roof).	15' × 8' (or 120 s. ft.) in verandah (Height 10'—flat roof).	15½' × 9' (or 140 s. ft.) under main roof.
Bath rooms—			
(i) Usual accommodation.	Five, each 10' × 6' (or 60 s. ft.) in verandah.	Five, each 8' × 6' (or 50 s. ft.) in verandah.	Four, each 7½' × 5½' (or 40 s. ft.) under main roof.
(ii) Special accommodation where water borne sewage exists.	One for the principal bed room and one for every additional 2 bed rooms or fraction of that number. Each to be 8' × 6' (48 s. ft.) and provided with a fixed slipper bath.	As in Column (i)	As in Column (i).
Water closets only where water borne sewage exists. (To be well ventilated and lighted.)	One for the principal bed room and one for every 2 additional bed rooms or fraction of that number. Each to be 18 s. ft. with flushing commode and cistern.	Ditto . .	Ditto.
Sweepers stairs and balcony.	....	....	Outside upper storey bath rooms.
Porch . . .	20' × 12' (or 240 s. ft.)	20' × 12' (or 240 s. ft.)	8' × 8' (or 60 s. ft.).
Pantry . . .	....	....	15½' × 9' (or 140 s. ft.) under main roof.

(c) Class III.—Married Captains and Subalterns—*contd.*

Detail.	(i) Plains.	(ii) Semi-hill.	(iii) Hill.
<i>Kitchen Block—</i>			
Pantry . . .	12'×12' (or 140 s. ft.)	12'×12' (or 140 s. ft.)	..
Kitchen . . .	12'×10' (or 120 s. ft.)	12'×10' (or 120 s. ft.)	10'×10' (or 100 s. ft.).
Store . . .	12'×4' (or 50 s. ft.) .	12'×4' (or 50 s. ft.) .	10'×5' (or 50 s. ft.).
Fuel stores (1 each for kitchen and household fuel).	Two, each 5½'×4' (or 20 s. ft.).	Two, each 5½'×4' (or 20 s. ft.).	Two, each 5'×4½' (or 20 s. ft.).
Cleaning room .	12'×5' (or 60 s. ft.) .	12'×5' (or 60 s. ft.) .	10'×5' (or 50 s. ft.).
Box room . . .	12'×5' (or 60 s. ft.) .	12'×5' (or 60 s. ft.) .	10'×6' (or 60 s. ft.).
Verandah . . .	4' clear width on one side of kitchen block.	4' clear width on one side of kitchen block.	4' clear width on one side of kitchen block.
Connecting passage.	4' wide, 6' long .	4' wide, 6' long .	..
<i>Out houses—</i>			
Servants quarters	Seven—Class G .	Seven—Class G .	Six—Class G. .
Coach house or garage.	One, 17½'×10'. .	One, 17½'×10'. .	..
Stables . . .	Two stalls, each 12'×10' with 6' verandah in front.	Two stalls, each 12'×10' with 5' verandah in front.	One stall, 12'×10' with 5' verandah in front.
Saddle room .	8'×6' (or 50 s. ft.) .	8'×6' (or 50 s. ft.) .	8'×6' (or 50 s. ft.).

(d) Class IV.—Unit Quarters for Single Officers (built in blocks).

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i>			
Bed-Sitting room under main roof.	204'×16' (or 328 s. ft.).	16'×16' (or 256 s. ft.).	14'×14' (or 196 s. ft.).
Dressing room .	14'—14'×10' (or 141 s. ft.) (Height 12'—flat roof).	16'×10' (or 160 s. ft.) (Height 10'—flat roof).	14'×9' (or 126 s. ft.).
Bath rooms—			
(i) Usual accommodation.	10'×6' (or 60 s. ft.).	10'×6' (or 60 s. ft.).	8'×6' (or 48 s. ft.).
(ii) Special accommodation where water borne sewage exists.	5'×6' (or 48 s. ft.) per 4 officers or fraction of that number, with fixed slipper baths and overhead showers.	As in Column (i)	As in Column (i).
Water Closets—only where water borne sewage exists. (Toilet well ventilated and lighted.)	One per 4 officers or fraction of that number. Each 6'×3' (or 18 s. ft.) with flushing commode and cistern.	Ditto . .	Ditto.
Store room .	10'×6' (or 60 s. ft.).	10'×6' (or 60 s. ft.).	8'×6' (or 48 s. ft.).
Verandah . .	10' clear width all round containing Dressing Room, Bath Room, and Store Room.	8' clear width on three sides, containing Store Rooms at ends.	6' clear width on three sides, containing Store Rooms at ends.
Servants verandah.	3' clear width outside the Dressing Room, Bath Rooms, and Store Rooms.	3' clear width outside the Dressing Room.	3' clear width outside the Dressing Room.
<i>Out houses—</i>			
Servants quarters	Class G. Number to be provided in accordance with scale below.	Class G. Numbers to be provided in accordance with scale below.	Three per Unit Quarter—Class G.
Coach house) or garage.	17½'×10'. Numbers to be provided in accordance with scale below.	17½'×10'. Numbers to be provided in accordance with scale below.	..
Stables . .	Stalls, 12'×10' with verandah 6' wide on one side. Numbers to be provided in accordance with scale below.	Stalls, 12'×10' with verandah 5' wide on one side. Numbers to be provided in accordance with scale below.	Stalls, 12'×10' with verandah 5' wide on one side. Numbers to be provided in accordance with scale below.

Scale of Servants Quarters, Stables, and Coach houses.

NUMBERS OF:—

Unit Quarters.	Servants Quarters.	Stables.	Coach houses.	Unit Quarters.	Servants Quarters.	Stables.	Coach houses.
2	6	2	1	18	44	13	9
3	9	3	1	19	46	13	10
4	12	4	2	20	48	14	10
5	14	5	2	21	49	14	11
6	17	6	3	22	51	15	11
7	20	6	4	23	53	15	11
8	22	7	4	24	54	15	12
9	25	8	5	25	56	15	13
10	27	9	5	26	57	16	13
11	29	9	6	27	58	16	13
12	32	10	6	28	60	16	14
13	34	11	6	29	61	16	14
14	36	11	7	30	62	16	15
15	38	12	7	31	63	16	15
16	40	12	8	32	64	16	16
17	42	13	8				

NOTE 1.—Cases in which the number of Unit Quarters exceeds 32 will be dealt with their merits.

NOTE 2.—In the case of sets of Unit Quarters specifically provided for Mounted Branches of the Service, one Stable per Unit Quarter and three Servants Quarters Quarter will be provided.

NOTE 3.—One additional Stable per Unit Quarter, per authorised charger above may be provided where necessary.

) Class V.—Lady Nurses.

The following accommodation will be built in blocks for Matrons and Nurses.

Main block.

- (i) The undermentioned rooms will be built on the same scales as laid down for the corresponding rooms in Class IV—Unit Quarters for single officers (*see* sub-para. (d) above).

Detail of accommodation	Authorised for each	
	Matron.	Nurse.
Sitting room (Note 1)	One	Nil .
Bed room	One	One
Dressing room (in verandah)	One	One
Bath room (in verandah) Note 2	One	One

NOTE 1.—The Sitting room will be 256 s. ft. and will be provided with fixtures on the scale laid down for the drawing room of a Class III Quarter.

NOTE 2.—At stations where water borne sewage exists special provisions for Bath rooms will be given as authorised for Class IV—Unit Quarters for Single Officers.

- (ii) A “ Common Dining Room ” and a “ Common Sitting Room ” will be provided on the same scale and with the same fixtures as the Mess Room and Ante Room of an Officers’ Mess (*see* paras. 13 and 14).

- (iii) A verandah will be provided all round the main block of clear width:—

10' in the plains.

8' in the hills.

Kitchen block.

Accommodation in the Kitchen block will be provided on the same scale and with the same fixtures as laid down for the Kitchen block of an Officers’ Mess (*see* paras. 13 and 14).

Outhouses.

- (i) Box Room, common . . . 16 s. ft. per nurse.

- (ii) Fuel store, common, for nurses’ fuel rations attached to box room . . . 8 s. ft. per nurse.

(e) (iii) Servants Quarters—Class G.

For private servants . . .	1 quarter per nurse.
For syces	1 quarter per 2 nurses.
For general servants . . .	5 quarters for 3-6 nurses.
	7 quarters for 7-12 nurses.
	9 quarters for 13-18 nurses.
	1 quarter extra for every 5, or part of 5, nurses over 18.

(iv) Stables, each 12' × 10' . . . 1 per 2 nurses.

(v) Coach houses or garages,
each 17½' × 10' 1 per 4 nurses.

Coach houses should only be built in stations where actually required.

Enclosure.

An enclosure should usually be provided for nurses quarters in the plains, consisting of brick walls 2½' to 3' high or fences (usually wire) 4½' high.

II. The following accommodation will be built detached for a Lady Superintendent.

Main block accommodation as given in (i) above. In addition a Dining room 16' × 16' (or 256 s. ft.) will be given.

Verandah all round the Main block, 10' in plains and 8' in hills, containing:—

Office, 10' × 14½' (or 145 s. ft.) . fitted with one shelved wall cupboard and shelving as required.

Box Room, 6' × 10' (or 60 s. ft.)

Pantry, 7' × 10' (or 70 s. ft.) . With fixtures as laid down in para. 14.

Kitchen block.

The following accommodation will be provided:—

Kitchen, 10' × 8' (or 80 s. ft.) . With fixtures as laid down in para. 14.

Fuel store, 4' × 5' (or 20 s. ft.)

Passage, 4' wide, 10' long.

NOTE.—Where possible the Lady Superintendent's Quarter will be so sited that the Lady Nurses Kitchen (see (ii) above) can be used.

(e) II—contd.

Outhouses.

Servants quarters—4 Class G quarters.

Coach house or garage—One, $17\frac{1}{2} \times 10'$.

Coach house should only be built in stations where actually required.

Stables—One, $12' \times 10'$ with $5'$ verandah in front.

f) Class VI.—Departmental Officers (built detached).

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i>			
Sitting room .	$24\frac{3}{4} \times 16'$ (or 390 s. ft.).	$17' \times 16'$ (or 272 s. ft.).	$14' \times 13'$ (or 182 s. ft.).
Dining room .	$18\frac{1}{2} \times 16'$ (or 300 s. ft.).	$17' \times 16'$ (or 272 s. ft.).	$14' \times 13'$ (or 182 s. ft.).
Bed rooms .	Two, each $14\frac{1}{2} \times 18\frac{1}{2}'$ (or 273 s. ft.). One, $14\frac{1}{2} \times 13\frac{3}{4}'$ (or 194 s. ft.).	Two, each $14' \times 16'$ (or 224 s. ft.). One, $12' \times 16'$ (or 192 s. ft.).	Two, each $14\frac{1}{2} \times 13\frac{1}{4}'$ (or 192 s. ft.). One, $14' \times 12'$ (or 168 s. ft.).
Hall . . .	6' wide between sitting room and dining rooms.	6' wide between sitting room and dining rooms.	8' wide through building with staircase.
Passage . .	4' wide from Hall between bed rooms.	....	..
Verandah . .	10' clear width all round.	8' clear width all round.	6' clear width in front, ground floor only.
Dressing rooms .	Two, each $15' \times 10'$ (or 150 s. ft.) in verandah (height 12'—flat roof).	Two, each $14' \times 8'$ (or 112 s. ft.) in verandah (height 10'—flat roof).	Two, each $12\frac{1}{2} \times 6'$ (or 75 s. ft.).
Bath rooms—			
(i) Usual accommodation.	Five, each $10' \times 6'$ (or 60 s. ft.) in verandah.	Five, each $8' \times 6'$ (or 48 s. ft.) in verandah.	Five, each $8' \times 6'$ (or 48 s. ft.) under main roof.
(ii) Special accommodation where water borne sewage exists.	One for every 2 or fraction of 2 bed rooms. Each to be $8' \times 6'$ (or 48 s. ft.) and provided with a fixed slipper bath.	As in Column (i)	As in Column (i).
Water closets only where water borne sewage exists (to be well ventilated and lighted).	One for every 2 or fraction of 2 bed rooms. Each to be $6' \times 3'$ (or 18 s. ft.) with flushing commode and cistern.	Ditto . .	Ditto.

(f) Class VI.—Departmental Officers—*contd.*

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i> contd.			
Sweepers stairs and balcony.	....	....	Outside upper storey bath rooms 2½' wide.
Pantry . . .	12'×10' (or 120 s. ft.) in verandah.	12'×8' (or 96 s. ft.) in verandah.	12'×8' (or 96 s. ft.) under main roof.
Store room . .	10'×6' (or 60 s. ft.) in verandah.	8'×6' (or 48 s. ft.) in verandah.	12'×4½' (or 57 s. ft.) under main roof.
<i>Kitchen Block—</i>			
Kitchen . . .	12'×10' (or 120 s. ft.).	12'×10' (or 120 s. ft.).	10'×8' (or 80 s. ft.).
Fuel store . .	5'×4' (or 20 s. ft.) .	5'×4' (or 20 s. ft.) .	5'×4' (or 20 s. ft.).
Verandah . . .	....	....	4' clear width on one side.
Connecting pass- age.	10' long, 4' wide .	10' long, 4' wide .	..
<i>Out houses—</i>			
Servants quarters	Four—Class G .	Four—Class G .	Four—Class G.
Coach house or garage.	One, 17½'×10' .	One, 17½'×10' .	..
Stable . . .	One stall, 12'×10' .	One stall, 12'×10' .	One stall, 12'×10'.

(g) Class VII.—Senior Warrant Officers (built semi-detached).

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i>			
Sitting room .	13½'×16' (or 216 s. ft.).	13'×14' (or 182 s. ft.).	13'×11½' (or 150 s. ft.).
Dining room .	13½'×16' (or 216 s. ft.).	13'×14' (or 182 s. ft.).	13'×11½' (or 150 s. ft.).
Bed rooms . .	Three, each 13½'×16' (or 216 s. ft.).	Three, each 13'×14' (or 182 s. ft.)	Three, each 13'× 11½' (or 150 s. ft.).
Verandah . . .	10' clear width all round.	8' clear width all round.	6' clear width front and back.
Dressing rooms .	One, 15'×10' (or 150 s. ft.) in verandah (height 12'—flat roof).	One, 14'×8' (or 112 s. ft.) in verandah (height 12'—flat roof).	One, 10'×8' (or 80 s. ft.).

v) Class VII.—Senior Warrant Officers—*contd.*

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building— contd.</i>			
Bath rooms— (i) Usual accom- modation.	Four, each 10'×6' (or 60 s. ft.) in veran- dah.	Four, each 8'×6' (or 48 s. ft.) in veran- dah.	Two, each 9'×6' (or 54 s. ft.) in verandah. One, 8'×6' (or 48 s. ft.) in verandah. One, 10'×6' (or 60 s. ft.)
(ii) Special accom- modation where water borne sewage exists.	One for every 2 or fraction of 2 bed rooms. Each to be 8'×6' (or 48 s. ft.) and provided with a fixed slipper bath.	As in Column (i)	As in Column (i).
Water Closets only where water borne sewage exists (to be well ventilated and lighted).	One for every 2 or fraction of 2 bed rooms. Each to be 6'×3' (or 18 s. ft.) with flushing com- mode and cistern.	Ditto . .	Ditto.
Pantry . .	10'×7' (or 70 s. ft.) in verandah.	8'×7' (or 56 s. ft.) in verandah.	..
Staircase hall (in double storied buildings).	Outside front veran- dah of suitable dimensions.	As in Column (i) .	As in Column (i).
Sweepers stairs and balcony (in double storied buildings).	Outside upper storey bath rooms 2½' wide.	Ditto . .	Ditto.
Servants stairs (in double storied buildings).	To verandah of Kitchen Block 2½' wide.	Ditto . .	Ditto.
<i>Kitchen Block—</i>			
Pantry . .	....	....	8'×6' (or 48 s. ft.).
Kitchen . .	10'×8' (or 80 s. ft.) .	10'×8' (or 80 s. ft.) .	10'×8' (or 80 s. ft.).
Store room . .	10'×6' (or 60 s. ft.)	10'×6' (or 60 s. ft.)	6'×6' (or 36 s. ft.).
Fuel Store . .	5'×4' (or 20 s. ft.) .	5'×4' (or 20 s. ft.) .	5'×4' (or 20 s. ft.).
Verandah . .	4' clear width on one side of Store and Kitchen.	As in Column (i) .	As in Column (i).
Connecting pass- age.	6' long, 4' wide .	6' long, 4' wide .	..
<i>Out houses—</i>			
Servants quarters	Two—Class G .	Two—Class G .	Two—Class G.

(h) Class VIII.—Junior W. O.'s and Departmental N. C. O.'s (built semi-detached).

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i>			
Sitting room .	16'×13½' (or 216 s. ft.).	14'×13' (or 182 s. ft.).	13'×11½' (or 150 s. ft.).
Dining room .	16'×13½' (or 216 s. ft.).	14'×13' (or 182 s. ft.).	13'×11½' (or 150 s. ft.).
Bed rooms .	Two, each 16'×13½' (or 216 s. ft.).	Two, each 14'×13' (or 182 s. ft.).	Two, each 13'×11½' (or 150 s. ft.).
Verandah .	10' clear width all round.	8' clear width all round.	6' clear width front and back.
Dressing rooms .	One, 15'×10' (or 150 s. ft.) in verandah (height 12'—flat roof).	One, 14'×8' (or 112 s. ft.) in verandah (height 10'—flat roof).	One, 10'×8' (or 80 s. ft.).
<i>Bath rooms—</i>			
(i) Usual accommodation.	Three, each 10'×6' (or 60 s. ft.) in verandah.	Three, each 8'×6' (or 48 s. ft.) in verandah.	Two, each 8'×6' (or 48 s. ft.) in verandah. One, 10'×6' (or 60' s. ft.).
(ii) Special accommodation where water borne sewage exists.	One for every 2 or fraction of 2 bed rooms. Each to be 8'×6' (or 48 s. ft.) and provided with a fixed slipper bath.	As in Column (i)	As in Column (i).
Water Closets only where water borne sewage exists (to be well ventilated and lighted).	One for every 2 or fraction of 2 bed rooms. Each to be 6'×3' (or 18 s. ft.) with flushing commode and cistern.	Ditto . .	Ditto.
Pantry . .	10'×7' (or 70 s. ft.) in verandah.	8'×7' (or 56 s. ft.) in verandah.	..
Staircase hall (in double storied buildings).	Outside front verandah of suitable dimensions.	As in Column (i).	As in Column (i).
Sweepers, stairs and balcony (in double storied buildings).	Outside upper storey bath rooms 2½' wide.	Ditto . .	Ditto.
Servants stairs (in double storied buildings).	To verandah of kitchen block 2½' wide.	Ditto . .	Ditto.

(h) Class VIII.—Junior W. O.'s and Departmental N. C. O.'s—*contd.*

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Kitchen Block—</i>			
Pantry . . .	....	....	8'×6' (or 48 s. ft.).
Kitchen . . .	10'×8' (or 80 s. ft.)	10'×8' (or 80 s. ft.)	10'×8' (or 80 s. ft.).
Store room . .	10'×6' (or 60 s. ft.)	10'×6' (or 60 s. ft.)	6'×6' (or 36 s. ft.).
Fuel Store . .	5'×4' (or 20 s. ft.) .	5'×4' (or 20 s. ft.) .	5'×4' (or 20 s. ft.).
Verandah . . .	4' clear width on one side of store and kitchen.	4' clear width on one side of store and kitchen.	4' clear width on one side of kitchen and fuel store.
Connecting passage.	6' long, 4' wide .	6' long, 4' wide .	..
<i>Out houses—</i>			
Servants quarters	Two—Class G .	Two—Class G .	Two—Class G.

(i) Class IX.—Regimental N. C. O.'s and Men (built in blocks).

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i>			
Dining and sitting room.	16'×13' (or 208 s. ft.).	15'×12½' (or 188 s. ft.).	12'×15' (or 180 s. ft.).
Bed rooms. . .	Two, each 16'×13' (or 208 s. ft.).	Two, each 15'×12½' (or 188 s. ft.)	Two, each 12'×12' (or 144 s. ft.).
Verandah . . .	10' clear width all round.	8' clear width all round.	6' clear width front and back.
Bath rooms—			
(i) Usual accommodation.	One, 10'×8' (or 80 s. ft.) in verandah.	One, 8'×7' (or 56 s. ft.) in verandah.	One, 9'×6' (or 54 s. ft.) in verandah.
	One 10'×6' (or 60 s. ft.) in verandah.	One 8'×6' (or 48 s. ft.) in verandah.	One 7'×6' (or 42 s. ft.) in verandah.
(ii) Special accommodation where water borne sewage exists.	One for every 2 or fraction of 2 bed rooms. Each to be 8'×6' (or 48 s. ft.) and provided with a fixed slipper bath.	As in Column (i) .	As in Column (i).
Water closets only where water borne sewage exists (to be well ventilated and lighted).	One for every 2 or fraction of 2 bed rooms. Each to be 6'×3' (or 18 s. ft.) with flushing commode and cistern.	Ditto . . .	Ditto.

(f) Class IX.—Regimental N. C. O.'s and Men—*contd.*

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i> <i>contd.</i>			
Pantry . . .	10'×7' (or 70 s. ft.) in verandah.	8'×7' (or 56 s. ft.) in verandah.	..
Staircase hall (in double storied buildings).	Outside front veran- dah of suitable dimensions.	As in Column (i)	As in Column (i).
Sweepers stairs and balcony (in double storied buildings).	Outside upper-storey bath rooms 2½' wide.	Ditto . . .	Ditto
Servants stairs (in double storied buildings).	To verandah of kitchen block 2½' wide.	Ditto . . .	Ditto.
<i>Kitchen Block—</i> Pantry . . .	....	....	10'×5' (or 50 s. ft.).
Kitchen . . .	10'×8' (or 80 s. ft.)	10'×8' (or 80 s. ft.).	10'×8' (or 80 s. ft.).
Store room . .	10'×6' (or 60 s. ft.).	10'×6' (or 60 s. ft.).	8'×4' (or 32 s. ft.).
Fuel Store . .	5'×4' (or 20 s. ft.).	5'×4' (or 20 s. ft.).	5'×4' (or 20 s. ft.).
Verandah . . .	4' clear width on one side of store and kitchen.	4' clear width on one side of store and kitchen.	..
Connecting pass- age.	6' long, 4' wide .	6' long, 4' wide .	..
<i>Out houses—</i> Servants quarters (see Note).	One per 2 quarters— Class G.	One per 2 quarters— Class G.	One per 2 quarters —Class G.

NOTE.—For quarters of units with small married establishments servants' quarters will be provided as under—

For 4 quarters and under, at the rate of 1 per quarter.

For 5 to 8 quarters inclusive, in the proportion of 3 per four quarters.

(g) Class X.—Apprentices of Ordnance Factories (built in blocks).

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building—</i> Common room .	30 s. ft. per bed room. Minimum size 16'×14' (or 224 s. ft.).	25 s. ft. per bed room. Minimum size 15'×12' (or 180 s. ft.).	20 s. ft. per bed room. Minimum size 12'×12' (or 144 s. ft.).
Bed room . . .	One per apprentice, 16'×14' (or 224 s. ft.).	One per apprentice, 15'×12' (or 180 s. ft.).	One per apprentice, 12'×12' (or 144 s. ft.).
Verandah . . .	10' clear width all round.	8' clear width all round.	6' clear width front and back.

(j) Class X.—Apprentices of Ordnance Factories—*contd.*

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill.
<i>Main Building— contd.</i>			
Bath rooms—			
(i) Usual accommodation.	One per apprentice, 10'×6' (or 60 s. ft.) in verandah.	One per apprentice, 8'×6' (or 48 s. ft.) in verandah.	One per apprentice, 7'×6' (or 42 s. ft.) in verandah.
(ii) Special accommodation where water borne sewage exists.	One for up to 5 quarters. Two for 6 to 16 quarters. One per 8 quarters for more than 16 quarters. Each 8'×6' (or 48 s. ft.) and provided with a fixed slipper bath.	As in Column (i)	As in Column (i).
Water closets only where water borne sewage exists (to be well ventilated and lighted).	One for up to 5 quarters. Two for 6 to 16 quarters. One per 8 quarters for more than 16 quarters. Each 6'×3' (or 18 s. ft.) fitted with flushing commode and cistern.	Ditto . .	Ditto.
Pantry . .	Half area of kitchen. In verandah.	Ditto . .	Ditto.
Store room . .	Half area of kitchen (Maximum 100 s. ft.). In verandah.	Ditto . .	Ditto.
Staircase (in double storied buildings).	In front verandah, of suitable dimensions.	Ditto . .	Ditto.
Balcony (in double storied buildings).	Outside upper storey bath rooms, 2½' wide.	Ditto . .	Ditto.
Servants stairs (in double storied buildings).	Adjoining balcony 2½' wide.	Ditto . .	Ditto.
<i>Kitchen Block—</i>			
Kitchen . . .	9 s. ft. per bed room (Minimum 120 s. ft.).	9 s. ft. per bed room (Minimum 120 s. ft.).	9 s. ft. per bed room (Minimum 80 s. ft.).
Fuel store . . .	½ s. ft. per bed room (Minimum 20 s. ft.).	As in Column (i)	As in Column (i).
Connecting passage.	6' long, 4' wide	Ditto . .	Ditto.
<i>Out houses—</i>			
Servants quarters	One per 2 quarters—Class G.	Ditto . .	Ditto.

8. British Type Quarters—Fixtures.

	Picture Rail.	CUPBOARDS BUILT INTO THE WALL.		
		Shelf.	Hanging. (a)	Combined Shelf and Hanging.
(a) Classes I, II, and III—				
Drawing room	1	..	..	..
Dining room	1	1	..	..
Bed room	1	1	..
Dressing room	1	1	..
Study	1	..	..
Hall or Lobby
Bath room
Pantry
Kitchen.	1	..	..
Store room
Cleaning room
(b) Classes IV and V—				
Bed-sitting room	1	..	..
Dressing room	1	..
Bath room
Store room (Class IV only)

(a) Hanging Cupboards will be 1'-9" deep with central top rod along the length of the Cupboard for clothes hangers.

(b) Set of 4 pegs or hooks.

(c) Set of 6 pegs or hooks.

(d) Shelf.

Pegs or Hooks.	Fixed Angle Wash stand.	Towel Rail.	Shelving.	Sink.	Plate Rack Over Sink.	Cooking Range.	Meat safe built through wall.
..
..
1 (b)
1 (b)
..
1 (c)
1 (b)	1	1	1 (d)	..	..	1	..
..	1 (f)	1 (j)	1	..	1
..	1 (h)	1 (l)	..	1	..
..	1 (f)	..	..	..	..
..	1 (e)	..	..	..	..
..
..
1 (b)	1 (d)	..	..	..
1 (b)	1	1	1	1 (f)	..	..	..
..

(e) Shelf on two sides.

(f) Two rows of shelving all round.

(h) Shelf over sink and on one side with 5 pegs or hooks underneath.

(j) Sink with hard wood grooved draining board on either side;

(d) Ground sink.

	Picture Rail.	CUPBOARDS BUILT INTO THE WALL.		
		Shelf.	Hanging. (a)	Combined Shelf and Hanging.
<i>c) Class VI—</i>				
Sitting room	1	1	..	..
Dining room	1	1	..	..
Bed room	1	1	..
Dressing room	1	1	..
Bath room
Pantry
Kitchen	1	..	..
Store room
<i>(d) Classes VII, VIII, IX and X—</i>				
Sitting room or Dining room or Common room (Class X).	..	1 (m)	..	..
Bed room	1
Dressing room	1	..	..
Bath room
Pantry
Kitchen	1	..	..
Store room

(n) Hanging Cupboards will be 1'-9" deep with central top rod along the length of the cupboard for clothes hangers.

(b) Set of 4 pegs or hooks.

(d) Shelf.

(f) Two rows of shelving all round.

Pegs or Hooks.	Fixed Angle Wash Stand.	Towel Rail.	Shelving.	Sink.	Plato Rack over Sink.	Cooking Range.	Meat safe built through wall.
..
..
1 (b)
1 (b)	1	1 (d)	..	..	..
1 (b)	1	1	1	1 (f)	1 (k)	1	1
..	1 (h)	1 (l)	..	..
..	1 (f)	..	..	..
..
..	1 (g)	..	..	..
..	1 (g)	..	..	..
..	1	1 (g)	..	..	..
..	1	1	1	1 (f)	1 (j) & (k)	1	1
..	1 (h)	1 (l)	..	..
..	1 (f)	..	..	..
..

(g) Projecting shelf with 4 pegs or hooks underneath.

(h) Shelf over Sink on one side with 5 pegs or hooks underneath.

(j) Sink in Class X quarters only.

(k) Sink with hard wood grooved draining board.

(l) Ground Sink.

(m) One per 40 apprentices in Class X quarters.

4. British Type Quarters—Proportions authorised.

- (a) The construction of Officers' quarters requires the approval of the G. of I. and no proportions are laid down herein.
- (b) Lady Nurses quarters may be constructed up to 100 per cent. of establishment. Additions or alterations to Lady Nurses quarters which affect capital values require the approval of G. of I. (*See Regulations for the M. E. S.*)
- (c) The proportion of married accommodation which may be built for units of Cavalry, R.A., R.E. (except R.E. with S. and M. Units or Defence Light Sections), Infantry, British Ranks of Signal Units, and R.A.M.C., distributed by ranks is as follows:—

	Per cent. of establishment strength.
Warrant Officers	100
Staff Sergeants and Sergeants	56
Rank and File	3

- (d) Married accommodation is provided for all R.E. Soldiers of any rank of not less than 26 years of age serving with the S. and M. and for all W. O.'s and N. C. O.'s of and above the rank of Sergeant serving with the Defence Light Sections.

Married accommodation for Rank and File of the Defence Light Sections will be provided at 3 per cent. of establishment strength.

- (e) Accommodation to the extent authorised above will be distributed between the plains and hills in the following proportions:—

	Plains per cent.	Hills per cent.
Northern Command—		
Mounted Units	50	50
Dismounted Units	25	75
Miscellaneous Establishments	75	25
Southern Command—		
All Services	75	25
Eastern Command—		
Mounted Units	50	50
Dismounted Units	25	75
Miscellaneous Establishments	75	25
Western Command—		
All Services	75	25

Where it is desired to accommodate families at any station in excess of these proportions tentage must be provided unless other surplus accommodation can be made available.

5. British Type Quarters—General Notes.

- (a) No scales of accommodation are laid down for General Officers or Brigadiers; quarters for whom should be designed to suit the requirements of each case.
- (b) Economy in design and construction must always be kept in view so as to reduce the capital cost of quarters to a minimum.
- (c) The scales of accommodation in para. 2 are, in general, drawn up to suit the usual type of construction, *i.e.*, normally single storied buildings in the plains and double storied buildings in the hills.
Where siting or other special considerations necessitate any alteration in the type of construction the accommodation provided should conform to the total areas laid down herein. The dimensions given may be varied to suit constructional requirements subject to the areas allowed not being exceeded. (*See Regulations for the M. E. S.*)
- (d) Where quarters in the plains are not likely to be used during the hot weather, a scale lower than that given in para. 2 for plains stations may be adopted subject to acceptance by the local medical authorities.
- (e) A Class III quarter (for a married Captain or Subaltern) shall be generally so designed as to be suitable for two single officers of the same rank.
- (f) Class IV Unit quarters will be constructed in single or double storied blocks as most convenient. In double storied blocks of officers unit quarters a staircase will be provided in the verandah at either end.
The normal allotment will be one unit quarter for a Captain or Subaltern and two units for a field officer, the spare dressing room and bath room in the latter case forming a study and go-down, and the two main rooms constituting a sitting room and a bed room. In the case of hostels for general purposes, the normal allocation will be one unit per single officer and two or three units per married officer, according to rank.
- (g) In officers quarters at stations in the plains where fire places are not provided, only one fuel store will be provided in the kitchen block.
- (h) Where quarters are constructed for officers of specified establishments or units of the service, one additional stable per quarter per authorised charger above one may be provided.
- (i) New quarters Classes I to X should, where suitable, be double storied, in which case only front and back verandahs would generally be required for the upper storey.

All living rooms should be under the main roof. Subsidiary buildings should be of an inexpensive type, provided that permanence and moderate expense on repairs are secured.

Compound fences or walls may be provided as required.

(j) When Classes VII to IX quarters are constructed for Departmental Subordinates entitled to keep a horse, mounted permanent staff of mounted Auxiliary Force Units, and Ordnance Assistant Foremen, an additional servant's quarter and one stable will be provided per quarter.

(k) Class IX quarters will be constructed in pairs within blocks, the rooms being so arranged that 2, 3, or 4, rooms can be allotted to one quarter and 4, 3, or 2, rooms to the other quarter according to size of families. Where an uneven number of Class IX quarters or a single quarter is to be constructed, the odd quarter or single quarter will have 4 rooms and will coincide with a Class VIII quarter.

In Classes VIII and IX quarters, a communicating door may be constructed between the bed room of two adjoining quarters to enable, if necessary, one quarter to be given 3 bed rooms and the other only one bed room.

(l) In blocks of Classes VII to IX quarters, to ensure privacy, partition walls between quarters should be carried to the roofs in verandahs.

Where the verandahs of quarters are more than 2 ft. above the ground, railings should be provided.

Where a single quarter of these classes has to be built detached the verandah will be provided all round.

(m) In certain localities where the kitchen would otherwise become insufferably hot it may be combined in one room with the pantry provided that the total authorised floor area is not exceeded, and also that, where this combined kitchen-pantry is provided, a separate pantry will not be provided at a future date except by again subdividing the combined room.

(n) A rectangular space, not exceeding 100 s. ft. with walls on three sides and a concrete floor, will be provided at a distance of about 50 yards at the back of Class IX quarters for the storage of sweepers brooms, receptacles, etc.

Only one such sweepers' storage space will be provided for each group of quarters which can conveniently be served from a single point.

(o) Where each married quarter contains two or more bath rooms separate latrines are not required, but in old quarters which have a single bath room only separate latrine accommodation will be provided.

(p) All coach houses will be constructed suitable for use as garages; 25 per cent. will be adaptable for use as stables if required. Inspection pits will not be provided in garages.

6. British Type Quarters—Miscellaneous Units, etc.

(a) "Permanent Staff, Auxiliary Force, India".

Quarters as authorised under regular scales for the regimental ranks concerned including acting ranks held against authorised establishments, except in the case of W. O.'s and N. C. O.'s borne permanently on the I. U. L. who are entitled to quarters as for I. U. L. personnel of corresponding ranks.

(b) "Departmental Establishments."

Departmental Officers other than those of the I. M. D. and those whose emoluments include lodging allowance have no claim to be provided with Govt. quarters, and quarters for such officers will usually (subject in all cases to the previous approval of the G. of I. being obtained), be constructed only—

(i) In connection with Army Ordnance and Clothing Factories.

(ii) When private accommodation cannot be procured in reasonable proximity to the place where the officers in question have to work.

(iii) In stations where the rents of private houses are very high.

The accommodation for Assistant Surgeons should be limited to the requirements of the number of officers and W. O.'s actually required for duty.

Departmental Officers, all I. U. L. and I. M. D. W. O.'s and N. C. O.'s, and Civilian Gazetted and Non-gazetted Officers and subordinates of Departments, will be accommodated in quarters of the Classes to which they may be assigned. These Classes provide accommodation for married men; when quarters for single men are required half the accommodation only will be given.

(j) When Classes VII to IX quarters are constructed for Departmental Subordinates entitled to keep a horse, mounted permanent staff of mounted Auxiliary Force Units, and Ordnance Assistant Foremen, an additional servant's quarter and one stable will be provided per quarter.

(k) Class IX quarters will be constructed in pairs within blocks, the rooms being so arranged that 2, 3, or 4, rooms can be allotted to one quarter and 4, 3, or 2, rooms to the other quarter according to size of families. Where an uneven number of Class IX quarters or a single quarter is to be constructed, the odd quarter or single quarter will have 4 rooms and will coincide with a Class VIII quarter.

In Classes VIII and IX quarters, a communicating door may be constructed between the bed room of two adjoining quarters to enable, if necessary, one quarter to be given 3 bed rooms and the other only one bed room.

(l) In blocks of Classes VII to IX quarters, to ensure privacy, partition walls between quarters should be carried to the roofs in verandahs.

Where the verandahs of quarters are more than 2 ft. above the ground, railings should be provided.

Where a single quarter of these classes has to be built detached the verandah will be provided all round.

(m) In certain localities where the kitchen would otherwise become insufferably hot it may be combined in one room with the pantry provided that the total authorised floor area is not exceeded, and also that, where this combined kitchen-pantry is provided, a separate pantry will not be provided at a future date except by again subdividing the combined room.

(n) A rectangular space, not exceeding 100 s. ft. with walls on three sides and a concrete floor, will be provided at a distance of about 50 yards at the back of Class IX quarters for the storage of sweepers brooms, receptacles, etc.

Only one such sweepers' storage space will be provided for each group of quarters which can conveniently be served from a single point.

(o) Where each married quarter contains two or more bath rooms separate latrines are not required, but in old quarters which have a single bath room only separate latrine accommodation will be provided.

(p) All coach houses will be constructed suitable for use as garages; 25 per cent. will be adaptable for use as stables if required. Inspection pits will not be provided in garages.

6. British Type Quarters—Miscellaneous Units, etc.

(a) "Permanent Staff, Auxiliary Force, India".

Quarters as authorised under regular scales for the regimental ranks concerned including acting ranks held against authorised establishments, except in the case of W. O.'s and N. C. O.'s borne permanently on the I. U. L. who are entitled to quarters as for I. U. L. personnel of corresponding ranks.

(b) "Departmental Establishments."

Departmental Officers other than those of the I. M. D. and those whose emoluments include lodging allowance have no claim to be provided with Govt. quarters, and quarters for such officers will usually (subject in all cases to the previous approval of the G. of I. being obtained), be constructed only—

(i) In connection with Army Ordnance and Clothing Factories.

(ii) When private accommodation cannot be procured in reasonable proximity to the place where the officers in question have to work.

(iii) In stations where the rents of private houses are very high.

The accommodation for Assistant Surgeons should be limited to the requirements of the number of officers and W. O.'s actually required for duty.

Departmental Officers, all I. U. L. and I. M. D. W. O.'s and N. C. O.'s, and Civilian Gazetted and Non-gazetted Officers and subordinates of Departments, will be accommodated in quarters of the Classes to which they may be assigned. These Classes provide accommodation for married men; when quarters for single men are required half the accommodation only will be given.

SECTION II.

British Troops Barracks and Subsidiary Buildings.

7. British Troops Barracks—Scales of accommodation.

Detail.	(i) Plains.	(ii) Semi-Hill.	(iii) Hill. (a).
Area per man .	90 s. ft. . . .	78 sq. ft. . . .	66 sq. ft.
Normal width of barrack room.	24'	23'	22'.
Verandah of barrack room.	10' clear width all round. (b)	8' clear width, back and front.	8' clear width, in front.
Single Sergeants' quarters (c)— Sitting Room .	224 s. ft. . . .	332 s. ft. (divided by a partition if required).	264 s. ft. (divided by a partition if required).
Bed Room .	176 s. ft. . . .		
Bath Room .	80 s. ft. (in verandah).	60 s. ft. . . .	42 s. ft.
Verandah . .	10' clear width all round (in prolongation of main barrack verandah).	8' clear width back and front (in prolongation of main barrack verandah).	8' clear width in front (in prolongation of main barrack verandah).
Store Room (for arms and kit of men in hospital, company stores, etc.)	80 s. ft. (in verandah). One for each half company or equivalent.	80 s. ft. (in verandah). One for each half company or equivalent.	80 s. ft. (in verandah). One for each half company or equivalent.

(a) The size of the huts will depend on the sites available, but they should be built to accommodate a definite formation, e.g., one or more platoons. In the case of subsidiary and auxiliary buildings the width of huts should be 20' only, but this need not be rigidly adhered to provided that the floor area or cost of the building is not increased.

(b) In cases where barracks have inner verandahs they may be used as dormitories provided that the full superficial area per man is given exclusive of the space in the unoccupied inner verandahs on the other side of the barracks.

(c) Single sergeants' quarters are placed at the ends of single men's barracks; two single sergeants' quarters can conveniently be constructed at one end of a barrack room.

NOTE 1.—Trees are to be planted near barracks, but they should not be placed so as to intercept the prevailing wind. Lines of trees should not be less than 50 yards from the barracks and a second row may be planted at not less than 10 yards from the first. The cost of planting and maintaining trees will be borne by Military Estates Officers, but in the case of barracks sited on land not under the management of a Military Estates Officer the cost of planting and maintenance will be borne by the M. E. S.

NOTE 2.—In double storied barracks staircases should usually be given in the verandahs.

NOTE 3.—A separate barrack will, if possible, be built for the accommodation of bands. The same scale as above will be allowed for Single Sergeants, and for Store rooms, and double the above scales will be allowed for the single men's barrack room.

Where this can be arranged no special provision is required for a Band Practice Room.

In cases where a special Band barrack cannot be provided as above, a Band Practice Room is authorised on the following scales:—

(i) For Regular Units—

A room on the same scale as regards floor area as is authorised for barrack rooms.

(ii) For Auxiliary Force (India) Units—

A room 400 s. ft. for each—

Regiment of Cavalry.

Brigade of Artillery.

Battalion of Infantry.

NOTE 4.—British Troops Sanitaria.

(i) The strength for which accommodation is to be provided at Sanitaria will be decided in each case by the Commander-in-Chief and sanctioned by the G. of I.

(ii) The scale of accommodation will be as above.

8. British Troops Barracks—Fixtures, etc.

The following fixtures, etc., are authorised:—

(a) In Barrack Rooms—

(i) Biggs' Arm Racks (*see* App. G.).

Also Lance Racks in British Cavalry Barracks.

(ii) An ammunition box, properly fixed to the floor, in each barrack room.

(iii) A shelf and two pegs over each bed for the men's kits.

Also a cupboard with shelves and folding doors built in the wall of each barrack room.

(iv) Fireplaces at stations where fuel is authorised. At such stations fireplaces are also authorised in tents in cases where tents are provided in lieu of buildings.

(v) Windows to be provided between each bed. Doors as required.

(vi) Mosquito nets will be suspended from three wires which will be supplied as fixtures, but in stations where electric punkahs are installed or where troops sleep outside periodically, the pole and frame system only will be adopted.

(b) In Single Sergeants Quarters—

(i) Sitting Room—

1 shelf cupboard built into the wall.

1 projecting shelf with 4 pegs or hooks underneath.

(ii) Bed Room—

1 combined shelf and hanging cupboard built into the wall.

1 projecting shelf with 4 pegs or hooks underneath.

(iii) Bath Room—

1 fixed angle wash stand.

1 towel rail.

1 projecting shelf with 4 pegs or hooks underneath.

(c) In Store Room—

Two rows of shelving all round.

(d) General—

(i) As regards punkahs and fans see App. G.

(ii) Iron suspension rods for lamps will be provided in barracks which have not been electrified.

(iii) Unenclosed night urinals, but not night closets, may be allowed in the upper verandahs of double storied buildings, and a sweepers' staircase should be given.

9. British Troops Barracks—Dining Halls and Cook-Houses—Scales.

Detail.	Above 200 men.	101 to 200 men.	51 to 100 men.	21 to 50 men.	Up to 20 men.
(a) In the Plains— Dining Hall	14 s. ft. per man.	14 s. ft. per man.	14 s. ft. per man. (Minimum 1000 s. ft.)	20 s. ft. per man. (Minimum 800 s. ft.)	40 s. ft. per man. (Minimum 350 s. ft.)
Verandah 10' wide all round Dining Hall con- taining:— Pantry and Servery . .	660 s. ft.	460 s. ft.	400 s. ft.	400 s. ft.	350 s. ft.
Beer and Mineral Water Bar.	200 "	200 "	160 "	160 "	"
Store	100 "	100 "	80 "	80 "	80 s. ft.

Detail.	Above 200 men.	101 to 200 men.	51 to 100 men.	21 to 50 men.	Up to 20 men.
<i>(b) In the Plains—contd.</i>					
Cook, House containing:—					
Kitchen	512 s. ft.	420 s. ft.	250 s. ft.	220 s. ft.	196 s. ft.
Scullery	315 „	275 „	160 „	142 „	80 „
Preparation room	315 „	275 „	160 „	142 „	80 „
Cooks room (in verandah).	64 „	64 „	48 „	48 „	42 „
Meat Store (in verandah).	64 „	56 „	48 „	48 „	42 „
Grocery (in verandah)	64 „	56 „	48 „	48 „	42 „
Fuel Store (in verandah).	80 „	80 „	60 „	48 „	42 „
Verandah	8' wide on two sides.	8' wide on two sides.	8' wide on two sides.	8' wide on two sides.	7' wide on two sides.
<i>(b) In the Hills—</i>					
Dining Hall	10 s. ft. per man	10 s. ft. per man.	10 s. ft. per man. (Minimum 700 s. ft.)	14 s. ft. per man. (Minimum 600 s. ft.)	30 s. ft. per man. (Minimum 250 s. ft.)
Pantry and Servery	380 s. ft.	335 s. ft.	300 s. ft.	280 s. ft.	240 s. ft.
Verandah on one end of Dining Hall containing:—	8' wide	8' wide	8' wide	6' wide	6' wide
Beer and Mineral Water Bar.	128 s. ft.	128 s. ft.	128 s. ft.	84 s. ft.	„
Store	80 „	80 „	64 „	48 „	48 s. ft.
Cook-House containing:—					
Kitchen	416 s. ft.	351 s. ft.	216 s. ft.	192 s. ft.	180 s. ft.
Scullery	262 „	200 „	145 „	120 „	70 „
Preparation room	262 „	200 „	145 „	120 „	70 „
Cooks room (in verandah).	64 „	64 „	48 „	48 „	36 „
Meat Store (in verandah).	64 „	56 „	48 „	36 „	36 „
Grocery (in verandah)	64 „	56 „	48 „	36 „	36 „
Fuel Store (in verandah).	80 „	80 „	60 „	48 „	36 „
Verandah	8' wide on two sides.	8' wide on two sides.	8' wide on two sides.	6' wide on two sides.	6' wide on two sides.

10. British Troops Barracks—Dining Halls and Cook-Houses—Fixtures, etc.

(a) Dining Hall.

(i) The following fixtures are provided:—

Picture Rail.

Shelf cupboard built into the wall; on the scale of one per platoon or equivalent.

Serving Tables.

Racks for crockery.

Hot Cases built in the walls.

Sinks with hard wood grooved draining boards.

As required. In the
Pantry and Ser-
very.

A counter and shelving as required, in the Beer and Mineral Water Bar.

Two rows of shelving all round, in the store.

(ii) Items such as fireplaces, punkahs or fans, etc., are provided as laid down for Barrack Rooms.

(iii) The floors should be constructed of impervious material such as portland cement concrete, and this should be carried up the vertical surface of the walls to a height of 3' as a dado, the junction between the floor and wall being rounded to avoid the accumulation of dust.

(b) Cook-House.

(i) The following fixtures are provided:—

Kitchen—

A separate cooking apparatus for each company or equivalent.

A stock pot for the preparation of soup (in addition to the cooking apparatus).

1 shelf cupboard built into the wall.

NOTE.—Instructions for the care of the cooking apparatus are to be pasted on a board and hung up in the kitchen.

Scullery—

One or more sinks with hard wood grooved draining boards, as required.

1 Plate Rack over each sink.

Preparation Room—

A reinforced concrete table.

(b) (i)—contd.

Cooks Room and Grocery—

Shelving, as required.

A set of 4 pegs or hooks per cooking apparatus, in the Cooks Room.

Meat Store—

Iron rods for carrying meat hooks.

Shelving, as required.

(ii) Cook Houses are normally attached to Dining Halls.

(iii) Floors should be impermeable, having a slope into a drain to facilitate washing the floor. This drain should discharge into a receptacle outside the building sunk as little as possible below ground. The sink receptacle should also be outside the building and above ground level.

(iv) Self closing doors with panels of wire gauze should be provided for all doorways, and wire gauze may be fixed in windows in place of glass if desired by the local authorities. This does not apply to verandah rooms which do not open into the main building.

(v) The words "Chopping Block for firewood" will be painted on the wall over that article.

11. British Troops Barracks—Wash-Houses and Baths.

(a) Wash Houses are usually constructed at the ends of barrack blocks; they may be built separately or in prolongation of the barrack blocks, whichever is more economical.

(b) Wash Houses are constructed on a scale of 12 s. 6d. per washing basin.

The following fixtures are authorised:—

Bath stands, which 2' length 4' per basin.

Hooks or pegs on a scale of 1 per basin.

Wooden covers or gratings over basins. *When necessary.*

Note.—Washing basins are supplied in the *British Troops Barracks* on a scale of 12 s. 6d. per basin. The cost of the establishment of the *British Troops Barracks* is *£100* per rank and married *£100* per rank.

- (c) Foot and shower baths are to be provided (either in a separate block or as part of the Wash House block) at the rate of one "Unit" per 25 men.

Each foot and shower bath "Unit" will comprise:—

One bathing cubicle, 9 s. ft.

Two dressing cubicles, each 9 s. ft.

Passage 3' wide between bathing and dressing cubicles.

The following fixtures are authorised:—

Each bathing cubicle, 1 fixed seat.

Each dressing cubicle, 1 fixed seat and 3 hooks or pegs.

- (d) Where a water borne sewage system exists, bath rooms and ablution rooms should be provided in accordance with the following scales:—

(i) Bath rooms for Sergeants—

Two in each wash house block, i.e., one 8' by 6' (or 48 s. ft.) with fixed slipper bath and one foot and shower bath unit [see sub-para. (c) above].

(ii) Bath rooms for Other Ranks—

At 6 per cent. of the number of men [see sub-para. (b) Note above], made up of 2 per cent. each 8' by 6' (or 48 s. ft.) with fixed slipper baths and 4 per cent. foot and shower bath units [see sub-para. (c) above].

(iii) Ablution Rooms—

On the scale laid down in sub-para. (b) above.

- (e) At stations where the provision of hot water apparatus is authorised a shelter should be provided at a scale of 25 s. ft. for each apparatus. The shelter should be constructed adjacent to the Wash House.

- (f) Where no water borne sewage system exists waste water should be dealt with in one of the following ways:—

(i) It can be collected in catch-pits from which the accumulations must be removed daily and sprinkled on the ground or carried to a distance.

(ii) It can be led into absorption pits in cases where the District, the Medical, and the M. E. S. authorities are of the opinion that the geological conditions permit of their use and that no risk is involved to the health of the troops by contamination of the water supply.

- (b) (iii) Where a water borne sewage system is provided water closets will be given on the following scales:—

Seats at 6 per cent. of the number of men *plus* 1 seat in each block for Sergeants.

Other details as above.

- (iv) Floors are to be of impermeable material and are to have a skirting all round. It is important that arrangements be made to ensure that the privy pan, when placed in position, is exactly under the opening in the seat and close up to it. The gables of the end walls should be left open but the eaves should project sufficiently to keep out the sun.

- (v) When a latrine has got more than 4 seats a sweeper's room 8' x 6' should be provided.

(c) Urinals.

- (i) The width of a urinal will be 6½' which will include the passage in front of the compartments.

A length of 2½' will be allowed for each compartment.

A urine trough will be provided as a fixture; it will lead into a filth receptacle at the opposite end of the building to the entrance.

- (ii) Urinals will be provided on a scale of 4 per cent. of establishment for all units.

Single sergeants and lance sergeants will be provided with separate urinals on the above scale.

- (iii) Where a water borne sewage system exists each urinal will be provided with a flushing system.

- (iv) Floors are to be of impermeable material. Walls should be constructed so as to leave a space of 1' between their lower edge and the ground.

The gables of end walls should be left open but the eaves should project sufficiently to keep out the sun.

Urinals will normally form a part of the latrine block.

SECTION III.

Officers' Messes.

13. Officers' Messes—Scales of accommodation.

(a) Plains.

Details—for	23-30 Officers.	16-22 Officers.	11-15 Officers.	5-10 Officers.
	Area s. ft.	Area s. ft.	Area s. ft.	Area s. ft.
<i>Main Block—</i>				
Mess Room	900 (a)	780	680	600
Ante Room	720 (b)	640	500	360
Billiard Room	720	520	520	..
Card Room	720 (c)	220	200	..
Office Room (in verandah) .	240	120	110	100
Dressing Room (in verandah).	240	200	150	100
Lavatory (in verandah) .	150	90	90	100
Wine Store (in verandah) .	200	180	150	120
Plate Room (in verandah) .	120	100	100	100
Bearers Room (in verandah)	80	80	80	80
Hall (in verandah) . . .	200	200	150	150
Porch	324	255	210	180
Verandah—Clear width all round.	10 ft.	10 ft.	10 ft.	10 ft.
<i>Kitchen Block—</i>				
Kitchen	400	256	168	120
Pantry and Servery . . .	240	160	140	120
Preparation Room . . .	189	165	138	115
Scullery	264	155	131	101
Grocery	107	55	50	38
Larder	117	74	69	63
Meat Store	111	58	53	45
Cooks Room (in verandah) .	60	48	48	42
Fuel Store	60	56	48	42
Verandah { Clear width in front.	7 ft.	7 ft.	7 ft.	7 ft.
Verandah { Clear width at back.	6 ft.	6 ft.	6 ft.	6 ft.
Covered Passage	10' long	10' long	10' long	10' long
	7' wide	7' wide	7' wide	7' wide
<i>Outhouses—</i>	Number.	Number.	Number.	Number.
Servants quarters (Class G)	12	9	9	8
Garages or Stables, each 17½' × 10'. (d)	4	3	3	2

(a) Add 15 s. ft. for every officer over 30.

(b) Add 10 s. ft. for every officer over 30.

(c) Card Room to be used also as a Reading Room.

(d) Inspection pits will not be provided in Garages.

(b) Semi-hill and Hill.

Details—for	23-30 Officers.	16-22 Officers.	11-15 Officers.	5-10 Officers.
	Area s. ft.	Area s. ft.	Area s. ft.	Area s. ft.
<i>Main Block—</i>				
Mess Room	720 (a)	540	480	360
Ante Room	540 (b)	540	360	360
Billiard Room	540	540	540	..
Card Room	240	180	180	..
Office Room (in verandah) .	80	80	64	64
Dressing Room (in verandah).	104	96	88	80
Lavatory (in verandah) .	72	64	64	56
Wine Store (in verandah) .	96	80	64	64
Plate Room (in verandah) .	56	56	56	56
Bearer's Room (in verandah)	56	56	56	56
Hall (in verandah)	120	120	80	80
Porch	64	64	64	64
Verandah—Clear width (front and back).	8 ft.	8 ft.	8 ft.	8 ft.
<i>Kitchen Block—</i>				
Kitchen	168	144	138	120
Pantry and Servery	126	96	96	90
Preparation Room	127	104	99	95
Scullery	128	105	102	75
Grocery	50	36	36	32
Larder	69	50	50	45
Meat Store	60	41	41	36
Cooks Room (in verandah) .	48	42	42	36
Fuel Store	40	35	35	30
Verandah—Clear width at back.	6 ft.	6 ft.	6 ft.	6 ft.
Covered Passage	10' long	10' long	10' long	10' long
	4½' wide	4½' wide	4½' wide	4½' wide
<i>Outhouses—</i>				
Servants' quarters (Class G)	12	10	9	8
Stables—(c) Stalls, each 12' × 10' with 6' verandah in front.	4	3	3	2

(a) Add 15 s. ft. for every officer over 30.

(b) Add 10 s. ft. for every officer over 30.

(c) In semi-hill or hill stations where vehicles can be used Stables or Garages 17½' × 10' (without inspection pits) may be provided.

14. Officers' Messes—Fixtures.

The following fixtures are authorised in Officers' Messes:—

(a) Main Block.

(i) Mess Room and Ante Room—Nil.

(a) (ii) Billiard Room—

1 shelf cupboard built into the wall.

Fixed seats as required.

Hooks or pegs as required.

(iii) Card Room—

1 Book Case built into the wall, with glazed lock-up front.

(iv) Office Room—

1 shelf cupboard built into the wall.

Shelving as required.

(v) Dressing Room—Hooks or pegs as required.

(vi) Lavatory—

Fixed basins or fixed basin stands 3' length per basin.

One hook or peg per basin.

NOTE.—Number of basins authorised is calculated at 20 per cent. of the number of officers.

(vii) Wine Store—Wine bins on two sides.

(viii) Bearers' Room—*Nil*.

(ix) Plate Room—

1 shelf cupboard built into the wall.

Shelving as required.

(x) Hall—Hooks or pegs as required.

(b) Kitchen Block.

(i) Kitchen—

1 Cooking Range.

1 shelf cupboard built into the wall.

(ii) Pantry and Servery—

Serving Tables.

Racks for Crockery.

Hot cases built in the walls.

Sinks with hard wood grooved draining boards.

} As required.

(iii) Preparation Room—1 reinforced concrete table.

(b) (iv) Scullery—

One or more sinks with hard wood grooved draining boards, as required.

1 plate rack over each sink.

(v) Grocery and Larder—Shelving as required.

(vi) Meat Store—

Iron rods for carrying meat hooks.

Shelving as required.

(vii) Cooks' Room—Hooks or pegs as required.

SECTION IV.

Sergeants' Messes.

15. Sergeants' Messes—Scales of accommodation.

The sizes of the various rooms will be chosen to suit the number of members entitled to use the mess, in accordance with the rules given below:—

(a) Main Block.

(i) Mess Room—

	Plains s. ft.	Hills s. ft.
For any number of members up to 10 . . .	240	200
For each number over 10 and up to 20—Add. .	24	18
For each number over 20 and up to 30—Add. .	16	12
For each number over 30—Add.	12	9

(ii) Ante Room—

	Plains s. ft.	Hills s. ft.
For any number of members up to 10 . . .	200	160
For each number over 10 and up to 30—Add. .	8	6
For each number over 30—Add	4	3

NOTE.—The Ante Room will be adjacent to the Mess Room, being separated from it by a moveable partition.

(iii) Billiard Room—

The standard size of a billiard table is 12' \times 6' and a clear space of at least 6' must be allowed between tables and between walls and tables.

The minimum dimensions of billiard rooms, which may not be reduced but which may be exceeded for constructional reasons, must, therefore, be:—

For one table—24' \times 18' (432 s. ft.).

For two tables—24' \times 30' (720 s. ft.) or 42' \times 18' (756 s. ft.).

Billiard Rooms will be provided on the following scale:—

Up to 20 members—*Nil*.

From 21 to 40 members—One.

41 members or over—Two in Plains, one in Hills.

(a) (iv) Other Rooms in Main Block—

The rooms given below will also be provided in the main block.

In the plains these rooms will normally all be verandah rooms, but in the hills some of them may, for constructional reasons, be placed under the main roof.

Detail.	Number of Members.					
	Up to 20.		21 to 40.		Over 40.	
	Plains.	Hills.	Plains.	Hills.	Plains.	Hills.
	S. ft.	S. ft.	S. ft.	S. ft.	S. ft.	S. ft.
Caterer's Room	200	160	200	160	200	160
Pantry and Servery	80	60	100	80	120	100
Beer Store	190	160	210	180	230	200
Plate Room	100	70	110	80	120	90
Lavatory	85	75	100	90	120	110

(v) Verandah—

In the plains a verandah 10' wide in the clear will be provided all round.

In the hills a verandah 8' wide in the clear will be provided along the front, and at the ends as required for verandah rooms

(b) Kitchen Block—

The following will be provided on the same scales as for "British Troops Barracks—Cookhouses"—see para. 9 (a) and (b):—

Kitchen.

Scullery.

Preparation Room.

Cooks Room (in verandah).

Meat Store (in verandah).

Grocery (in verandah).

Fuel Store (in verandah).

Verandah.

(c) Latrine Block—

The following will be provided (on the scales given in para. 12) in a separate block:—

(c)—contd.

Latrine Seats—

2 up to 40 members; one extra for each additional 20 or part of 20 members.

Urinal Compartments—

1 up to 40 members; one extra for each additional 40 or part of 40 members.

16. Sergeants' Messes—Fixtures.

The following fixtures are authorised in Sergeants' Messes:—

(a) Main Block—

(i) Mess Room and Ante Room—

1 shelf cupboard built into the wall.

(ii) Billiard Room—

1 shelf cupboard built into the wall.

Fixed seats as required.

Hooks or pegs as required.

(iii) Caterer's Room—

1 shelf cupboard built into the wall.

Shelving as required.

(iv) Pantry and Servery—

Serving Tables.

Racks for Crockery.

Hot cases built into the wall.

Sinks with hard wood ~~grained~~ draining boards.

} As required.

(v) Beer Store—

1 Bin for wine.

(vi) Plate Room—

1 shelf cupboard built into the wall.

Shelving as required.

(a) (vii) Lavatory—

Fixed basins or fixed basin stands 3' length per basin.

One hook or peg per basin.

NOTE.—Number of basins authorised is calculated at 5 per cent. of the number of members, with a minimum of two.

(b) Kitchen Block.—As for “British Troops Barracks—Cook houses”.
—See para. 10 (b).

(c) Latrine Block.—As for “British Troops Barracks—Latrines”.
See para. 12 (b) and (c).

SECTION V.

Indian Type Quarters.

17. Indian Type Quarters—Classification.

Indian Officers holding King's commissions are provided with accommodation on the same scales as laid down for British Officers.

Accommodation for other Indian personnel is provided in accordance with the following classification:—

- | | |
|---|------|
| Class A. (built detached). | For— |
| Indian Officers (other than Gurkhas) holding Viceroy's commissions. | |
| Assistant Foremen and charge hands of mechanized units. | |
| Class B. (built detached). | For— |
| Officers of Gurkha Units holding Viceroy's commissions. | |
| Class C. (built detached). | For— |
| Sub-Assistant Surgeons or Veterinary Assistant Surgeons holding Viceroy's commissions. | |
| Class D. (built detached). | For— |
| Sub-Assistant Surgeons or Veterinary Assistant Surgeons ranking as Indian W. O's. | |
| Hospital Storekeepers. | |
| Class E. (built in blocks). | For— |
| Artificers of mechanized units and services drawing Rs. 75 per month and upwards. | |
| Class F. (built in blocks). | For— |
| Married N. C. Os. and men of all Indian Units except Silladars of Camel Transport Companies (Silladar) who are not entitled to accommodation. | |
| Married artificers of mechanized units and services drawing Rs. 20 per month and under Rs. 75 per month. | |
| Married Lascar establishment of I. A. O. C. | |
| Class G. (built in blocks). | For— |
| Married Followers. | |
| Servants of British Officers, Lady Nurses, and British Subordinates. | |
| Caretakers (Indian Territorial Battalions). | |

Class G—*contd.*

Indian Artificers of mechanized units and services drawing under Rs. 20 per month.

NOTE 1.—Quarters for lower subordinates of the M. E. S. will be provided on the following scales:—

Sub-overseer, 1st grade Class C.

Sub-overseer, 2nd grade Class D.

When the duties of a subordinate necessitate keeping a horse, a stall (on the scales laid down in para. 2) should be allowed.

The lower subordinates referred to above are not entitled to free accommodation, and quarters for them will be provided in all cases subject to the sanction of the G. of I.

NOTE 2.—Accommodation for single artificers of mechanized units and services drawing Rs. 20 per month and under Rs. 75 per month will be given on the same scales as for single Indian other ranks (see para. 21).

18 Indian Type Quarters—Scales of accommodation.

Detail.	Dimensions.
(a) Class A (built detached)—	
Living Room (a)	15'×10' (or 150 s. ft.).
Sitting Room (a)	15'×10' (or 150 s. ft.).
Cooking Place	6'×6' (or 36 s. ft.).
Bathing Place (c)	6'×5' (or 30 s. ft.).
Latrine (c)	6'×5' (or 30 s. ft.) Outside Courtyard.
Courtyard (d)	31½'×22½' (or 709 s. ft.).
Durbar Hall	12'×8' (or 96 s. ft.).
Verandahs	8' clear width in front of living and sitting rooms. Separate verandah 8' clear width in prolongation of Durbar Hall.

(a) The following fixtures are authorised for Living and Sitting Rooms:—
1 projecting shelf with 4 pegs or hooks underneath.

(c) Where a water borne sewage system exists the following will be provided:—
In Bathing Places of Classes A to F quarters—A combined foot and shower bath.
In Latrines of Classes A and C to F quarters—A flushing system.

(d) The normal height of the courtyard wall is 6½', but in certain cases (*e.g.*, where a road passes close to the quarters) the height may be increased up to 9½'.

In the Hills Courtyards may be omitted if sufficient ground is not available.

Detail.	Dimensions.
(b) Class B (built detached)—	
Living Room (a) . . .	12½' × 12' (or 150 s. ft.).
Sitting Room (a) . . .	12½' × 12' (or 150 s. ft.).
Cooking Place . . .	6' × 6' (or 36 s. ft.) in verandah.
Bathing Place (c) . . .	6' × 5' (or 30 s. ft.) in verandah.
Latrine . . .	Separate block. Scales as in para. 25.
Durbar Hall . . .	12' × 8' (or 96 s. ft.) in verandah.
Verandah . . .	8' clear width on three sides.
(c) Class C (built detached)—	
Living Room (a) . . .	16' × 12' (or 192 s. ft.).
Sitting Room (a) . . .	12' × 12' (or 144 s. ft.).
Cooking Place . . .	6' × 6' (or 36 s. ft.).
Bathing Place (c) . . .	6' × 5' (or 30 s. ft.).
Latrine (c) . . .	6' × 5' (or 30 s. ft.) Outside Courtyard.
Courtyard (d) . . .	30' × 17½' (or 525 s. ft.).
Verandah . . .	8' clear width in front of living and sitting rooms.
(d) Class D (built detached)—	
Living Room (a) . . .	16' × 12' (or 192 s. ft.).
Cooking Place . . .	6' × 6' (or 36 s. ft.).
Bathing Place (c) . . .	6' × 5' (or 30 s. ft.).
Latrine (c) . . .	6' × 5' (or 30 s. ft.) Outside Courtyard.
Courtyard (d) . . .	32' × 16½' (or 536 s. ft.).
Verandah . . .	8' clear width in front of living room.

(a) The following fixtures are authorised for Living and Sitting Rooms:—
1 projecting shelf with 4 pegs or hooks underneath.

(c) Where a water borne sewage system exists the following will be provided:—
In Bathing Places of Classes A to F quarters—A combined foot and shower bath.
In Latrines of Classes A and C to F quarters—A flushing system.

(d) The normal height of the courtyard wall is 6½', but in certain cases (e.g., where a road passes close to the quarters) the height may be increased up to 9½'.

In the Hills Courtyards may be omitted if sufficient ground is not available.

Detail.	Dimensions.
(e) Class E (built in blocks)—	
Living Room (a)	12' × 10' (or 120 s. ft.).
Sitting Room (a)	12' × 10' (or 120 s. ft.).
Cooking Place	Chula, hood, and chimney, in verandah.
Bathing Place (c)	6' × 5' (or 30 s. ft.) Open, 4' high.
Latrine (c)	6' × 5' (or 30 s. ft.) Outside Courtyard.
Courtyard (d)	26' × 14½' (or 377 s. ft.).
Verandah	Clear width in front of living and sitting rooms. 8' in Plains, 6½' in Semi-Hills—5' in Hills.

(f) Class F (built in blocks)—

Living Room (a)	12' × 12' or 14½' × 10' (or 144 s. ft.) in the Plains 12' × 10' (or 120 s. ft.) in Semi-Hills. 10' × 10' (or 100 s. ft.) in Hills.
Cooking Place	Chula, hood, and chimney, in verandah.
Bathing Place (c)	6' × 5' (or 30 s. ft.) Open, 4' high.
Latrine (b) (c)	6' × 5' (or 30 s. ft.) Outside Courtyard.
Courtyard (b) (d)	18' × 12' or 14½' × 15' (or 216 s. ft.) in the Plains. 14' × 12' (or 168 s. ft.) in Semi-Hills. 12' × 10' (or 120 s. ft.) in the Hills.
Verandah	Clear width in front of living room. 8' in Plains—6½' in Semi-Hills, 5' in Hills.

(a) The following fixtures are authorised for Living and Sitting Rooms:—
1 projecting shelf with 4 pegs or hooks underneath.

(b) In Class F quarters built for Gurkhas the courtyard and latrine will be omitted and separate latrines provided on the scales laid down in para. 25.

(c) Where a water borne sewage system exists the following will be provided:—
In Bathing Places of Classes A to F quarters—A combined foot and shower bath.
In Latrines of Classes A and C to F quarters—A flushing system.

(d) The normal height of the courtyard wall is 6½', but in certain cases (e.g., where a road passes close to the quarters) the height may be increased up to 9½'.
In the Hills Courtyards may be omitted if sufficient ground is not available.

Detail.	Dimensions.
(g) Class G (built in blocks)—	
Living Room (a)	12'×10' (or 120 s. ft.) Plains. 10'×10' (or 100 s. ft.) Semi-hills. 10'×8' (or 80 s. ft.) Hills.
Cooking Place	Chula, hood and chimney, in verandah.
Latrine	Separate block, when required. Scales as in para. 25.
Verandah	8' clear width in front in the Plains. 6½' clear width in front in the Semi-hills. 5' clear width in front in the Hills. Partition walls to be provided in verandah between quarters.

- (a) The following fixtures are authorised for the Living Room:—
1 projecting shelf with 4 pegs or hooks underneath.

19. Indian Type Quarters—Proportions authorised.

- (a) Quarters up to 100 per cent. of establishment are authorised for all Indian Officers and their families.
- (b) For Indian Rank and File and their families quarters are authorised up to the percentages of establishment given below:—

Units, etc.	Percentage.
Cavalry Regiment	14
Governor-General's Bodyguard	15
Bodyguard, Governor of Madras or Bombay or Bengal	35
Royal Artillery Training Centre	14
Indian Mountain Artillery Units	14
Mountain Artillery Training Centre	7
Indian Coast Artillery	14
Frontier Garrison Artillery	14
H. Q. (K. G. O.) Bengal S. and M.	14
H. Q. (Q. V. O.) Madras S. and M. (including all units at H. Q., and reinforcements and recruits)	27
H. Q. Royal Bombay S. and M.—E. Depot Coy.	50
H. Q. Royal Bombay S. and M.—Remaining units at H. Q.	24
H. Q. Royal Bombay S. and M.—Reinforcements and Recruits	7
Detached Coy. S. and M.	14
Defence Light Section	14
Signal Corps	14
Gurkha Battalions (excluding Training Coys.)	27
Gurkha Battalion Training Coys.	14

(b)—contd.

<i>Units, etc.</i>	<i>Percentage.</i>
Infantry and Pioneer Battalions	14
I. A. S. C. Animal Transport Units—Superior Personnel	100
I. A. S. C. Animal Transport Units—Remainder	14
Indian Hospital Corps	14
Authorised followers of British and Indian Units	100
Indian combatants of all British Units	14
Army Veterinary Corps, India—Veterinary Assistants ranking as W. O.	100
Army Veterinary Corps, India—Remainder	14
M. T. Units and M. T. Depots—Combatant Ranks	14
Indian Artificers of Mechanized Units and Services—	
Assistant Foremen and Charge Hands	100
Artificers drawing Rs. 75 per month and upwards	100
Artificers drawing Rs. 20 per month and under Rs. 75 per month	14
Artificers drawing under Rs. 20 per month	100
Infantry Training Battalions	7
Indian Pioneers—	
Corps H. Q.	14
Training Coys.	7
Hazara Pioneers (except Training Coy.)	14
Training Coy.	7
Lascar Establishment of I. A. O. C.	60

NOTE.—The term "families" means wife and children and does not include relations.

20. Indian Type Quarters - General Notes.

- (a) For Indian Territorial Force one married Indian N. C. O. per battalion will be provided with a Class F quarter.
- (b) Religious teachers and Indian Instructors (N. C. Os.) will be provided with Class F quarters.
- (c) Pucca floors are to be provided in quarters (including verandahs, bathing places, and latrines) of Classes A to G.
- (d) The provision of fireplaces is authorised as under:—
 - (i) In married quarters (other than followers quarters) at stations where the issue of fuel is authorised.
Also in Indian Officers' quarters at stations where climatic conditions necessitate them.
 - (ii) In followers quarters where the G. O. C. Dist. considers them necessary.
 - (iii) In tents, where tents are provided in lieu of buildings, at stations where the issue of fuel is authorised and when the G. O. C. Dist. considers them necessary.

22. Indian Troops Barracks—Fixtures, etc.

- (a) The following fixtures are authorised:—

A projecting shelf with three pegs or hooks underneath for each man (including Havildars and Dafadars) in Barracks.

- (b) Fireplaces will be provided in barracks or tents (when provided in lieu of buildings) at stations where the issue of fuel is authorised or where the G. O. C. Dist. considers them necessary.

- (c) Glazed windows should be provided in Single Men's Barracks on the scale of 6 s. ft. of glazing per 100 s. ft. of floor area.

- (d) Mosquito nets will be suspended from three wires which will be supplied as fixtures, but in stations where electric punkahs are installed or where troops sleep outside periodically the pole and frame system only will be adopted.

- (e) Pucca floors are authorised for barrack rooms and verandahs.

23. Indian Troops Barracks—Cooking Sheds.

- (a) Cooking Sheds will be provided on a scale of 9 s. ft. per man.

A raised platform 6" high and 2'—7½" wide will be provided along the main wall, on which the unit in occupation will construct their own chulas as required. .

A skirting 4½" wide and 9" high will be provided all around the platform where it meets the walls. In order to carry off the smoke, a hood with chimneys will be provided over the platform. The chimneys should project 3' above the roof.

NOTE 1.—Paxton Cookers may be used as an alternative to the above raised platform where desired by the Unit.

NOTE 2.—The Squadron or Company Ration Stores of Units for whom such accommodation is authorised will usually be built as a part of the Cooking Sheds Block [see para. 36 (b) (i)].

- (b) A Fuel Store 25 s. ft. will be provided in each cooking shed.

- (c) A washing up platform of masonry 25 s. ft. will be provided for each Cooking Shed, and also a stand pipe and water tap in lines where a piped supply exists. In other lines a raised galvanised iron tank of 50 gallons capacity and tap will be provided for the washing up platforms. Drainage should be suitably provided for.

- (d) When single followers are accommodated in barracks separate cooking sheds, fuel stores, and washing up platforms, are authorised for them on the above scales.

24. Indian Troops Barracks—Bathing Places.

- (a) Bathing places will be provided on a scale of 4 per cent. for single men only.
- (b) The building will consist of cubicles 4' x 3' arranged back to back and separated by thin partitions.
The cubicles will be covered by a roof.
A passage 3' wide will be left in front of the cubicles outside which a wall 6' high will be constructed all round for privacy.
- (c) Whenever possible a water pipe with shower should be laid on to each cubicle. The shower must be fitted with a "pull and let go" or some other suitable arrangement in order to prevent wastage of water.
- (d) Drainage should be suitably provided for.

25. Indian Troops Barracks—Latrines and Urinals.**(a) General Notes.**

The provisions of para. 12 (a) apply also to Indian Troops.

(b) Latrines.

(i) Details regarding latrines for Indian Troops will be as laid down in para. 12 (b)—clauses (i), (iv), and (v).

(ii) Latrines for single men (including single followers, etc.) will be provided on a scale of 8 per cent. of establishment.

(iii) Where latrines for families are built in blocks (*e.g.*, Gurkha families, or married followers) latrines will be provided on a scale of 16 per cent. of establishment. Half the latrines so provided will be grouped in a block for men and the other half in a separate block for families.

(iv) Where a water borne sewage system exists, latrine seats with a flushing system will be provided on the following scales:—

For single men—At 6 per cent. of the establishment.

For married men—At 12 per cent. of the establishment grouped in two blocks as in (iii) above.

(c) Urinals.

- (i) Details regarding urinals for Indian Troops will be as laid down in para. 12 (c), clauses (i), (iii), and (iv).
- (ii) Urinals will be provided on a scale of 4 per cent. of the establishment of single men for all units (including followers, etc.).

SECTION VII.

Auxiliary Buildings and Works for Individual Units.

26. Institutes—British Troops.

(a) Scales of Accommodation.

Item of Accommodation.	751 to 900 men. 1	651 to 750 men. 2	551 to 650 men. 3	451 to 550 men. 4
1. Reading & Writing Room	38'×32' (or 1,216 s. ft.)	32'×28' (or 896 s. ft.)	31'×28' (or 868 s. ft.)	28'×26' (or 728 s. ft.)
2. Book Room (a)	28'×10' (or 280 s. ft.)	25'×10' (or 250 s. ft.)	20'×10' (or 200 s. ft.)	19'×10' (or 190 s. ft.)
3. Hall	21'×16' (or 336 s. ft.)	10½'×28' (or 294 s. ft.)	10½'×28' (or 294 s. ft.)	10'×26' (or 260 s. ft.)
4. Cloak Room	10'×16' (or 160 s. ft.)	..	..	..
5. Corporals Room	37½'×32' (or 1,200 s. ft.)	31½'×28' (or 882 s. ft.)	30½'×28' (or 854 s. ft.)	28'×26' (or 728 s. ft.)
6. Corporals Supper Room	37½'×32' (or 1,200 s. ft.)	31½'×28' (or 882 s. ft.)	30½'×28' (or 854 s. ft.)	28'×26' (or 728 s. ft.)
7. Corporals Supper Issue Room (a).	28'×10' (or 280 s. ft.)	25'×10' (or 250 s. ft.)	25'×10' (or 250 s. ft.)	24'×10' (or 240 s. ft.)
8. Hall	21'×16' (or 336 s. ft.)	10½'×28' (or 294 s. ft.)	10½'×28' (or 294 s. ft.)	10'×26' (or 260 s. ft.)
9. Cloak Room	10'×16' (or 160 s. ft.)	..	..	..
10. Refreshment Room	116'×32' (or 3,712 s. ft.)	98'×28' (or 2,744 s. ft.)	95'×28' (or 2,660 s. ft.)	87'×26' (or 2,262 s. ft.)
11. Supper Issue Room (a)	57'×10' (or 570 s. ft.)	50'×10' (or 500 s. ft.)	48'×10' (or 480 s. ft.)	48'×10' (or 480 s. ft.)
12. Bar or Issue Room (a)	36'×10' (or 360 s. ft.)	32'×10' (or 320 s. ft.)	32'×10' (or 320 s. ft.)	30'×10' (or 300 s. ft.)
13. Beer Store	16'×28' (or 448 s. ft.)	16'×28' (or 448 s. ft.)	16'×28' (or 448 s. ft.)	14'×28' (or 392 s. ft.)
14. Temperance Room (d)	51'×28' (or 1,512 s. ft.)	45'×28' (or 1,260 s. ft.)	44'×26' (or 1,144 s. ft.)	36'×26' (or 936 s. ft.)
15. Games Room	25'×28' (or 700 s. ft.)	25'×28' (or 700 s. ft.)	25'×28' (or 700 s. ft.)	25'×28' (or 700 s. ft.)
16. Billiard Room (c)	4 Tables	3 Tables	2 Tables	2 Tables

(a) In veranda.

(b) Included in Bar or Issue Room.

(c) The minimum dimensions of Billiard Rooms laid down in Para. 15 (a) (iii) apply to Institutes except that (in order to allow for the greater number of men using the room) the clear space allowed between tables and between tables and walls may be increased to 8'.

(a) Scales of Accommodation—*contd.*

Items of Accommodation.	750 to 900 men. 1	651 to 750 men. 2	551 to 650 men. 3	451 to 550 men. 4
17. Grocery Bar . . .	15'×28' (or 420 s. ft.)	14'×28' (or 392 s. ft.)	14'×26' (or 364 s. ft.)	13'×26' (or 338 s. ft.)
18. Store Room . . .	18'×16' (or 288 s. ft.)	15'×13½' (or 201 s. ft.)	13'×13½' (or 175 s. ft.)	12'×13½' (or 162 s. ft.)
19. Office . . .	14'×16' (or 224 s. ft.)	15'×13½' (or 202 s. ft.)	13'×13½' (or 175 s. ft.)	12'×13½' (or 162 s. ft.)
20. Store . . .	14'×11' (or 154 s. ft.)	..	..	..
21. Dressing Room (a) . . .	12'×10' (or 120 s. ft.)	12'×10' (or 120 s. ft.)	12'×10' (or 120 s. ft.)	12'×10' (or 120 s. ft.)
22. Bakery . . .	16'×16' (or 256 s. ft.)	16'×15' (or 240 s. ft.)	16'×15' (or 240 s. ft.)	14'×14' (or 196 s. ft.)
23. Pantry . . .	20'×16' (or 320 s. ft.)	16'×18' (or 288 s. ft.)	16'×18' (or 288 s. ft.)	16'×16' (or 256 s. ft.)
24. Lavatory . . .	13'×16' (or 208 s. ft.)	16'×10' (or 160 s. ft.)	16'×10' (or 160 s. ft.)	14'×10' (or 140 s. ft.)
25. Mineral Water Factory . . .	16'×10' (or 160 s. ft.)	16'×10' (or 160 s. ft.)	16'×10' (or 160 s. ft.)	14'×10' (or 140 s. ft.)
<i>Caterer's Quarters.</i>				
26. Bed Room . . .	16'×12½' (or 200 s. ft.)	16'×12½' (or 200 s. ft.)	16'×11' (or 176 s. ft.)	16'×11' (or 176 s. ft.)
27. Sitting Room . . .	16'×14' (or 224 s. ft.)	16'×14' (or 224 s. ft.)	16'×14' (or 224 s. ft.)	16'×14' (or 224 s. ft.)
28. Bath Room (a) . . .	8'×10' (or 80 s. ft.)	8'×10' (or 80 s. ft.)	8'×10' (or 80 s. ft.)	8'×10' (or 80 s. ft.)
29. Kitchen . . .	23'×16' (or 368 s. ft.)	23'×16' (or 368 s. ft.)	23'×16' (or 368 s. ft.)	19'×16' (or 304 s. ft.)
30. Scullery . . .	15'×18' (or 270 s. ft.)	16'×14' (or 224 s. ft.)	16'×14' (or 224 s. ft.)	16'×12' (or 192 s. ft.)
31. Meat Store (c) . . .	8'×6' (or 48 s. ft.)	8'×6' (or 48 s. ft.)	8'×6' (or 48 s. ft.)	8'×6' (or 48 s. ft.)
32. Fuel Store . . .	16'×6' (or 96 s. ft.)	16'×6' (or 96 s. ft.)	16'×6' (or 96 s. ft.)	16'×6' (or 96 s. ft.)
Verandahs . . .	10' Clear width round the main building, and and mineral water factory.			

(a) In verandah.

(c) In Institutes for up to 100 men a portion of the Refreshment Room approx. 150-200 s. ft. may be used as a Grocery Bar and will be divided off by a movable counter with flap door.

	351 to 450 men. 5	201 to 350 men. 6	101 to 200 men. 7	51 to 100 men. 8	Up to 50 men. 9
17	13'×26' (or 338 s. ft.)	12'×24' (or 288 s. ft.)	10'×24' (or 240 s. ft.)	(e)	(e)
18	12'×13½' (or 162 s. ft.)	10'×13½' (or 135 s. ft.)	12'×11½' (or 138 s. ft.)	12'×11½' (or 138 s. ft.)	10'×9½' (or 95 s. ft.)
19	12'×13½' (or 162 s. ft.)	10'×13½' (or 135 s. ft.)	12'×11½' (or 138 s. ft.)	12'×11½' (or 138 s. ft.)	10'×9½' (or 95 s. ft.)
20	..	..	..	10'×8' (f) (or 80 s. ft.)	10'×6' (f) (or 60 s. ft.)
21	12'×10' (or 120 s. ft.)	10'×10' (or 100 s. ft.)	10'×10' (or 100 s. ft.)	10'×10' (g) (or 100 s. ft.)	10'×10' (g) (or 100 s. ft.)
22	14'×12' (or 168 s. ft.)	12'×14' (or 168 s. ft.)	12'×12' (or 144 s. ft.)	10'×10' (h) (or 100 s. ft.)	10'×10' (h) (or 100 s. ft.)
23	16'×15' (or 240 s. ft.)	16'×15' (or 240 s. ft.)	15'×12' (or 180 s. ft.)	12'×11½' (or 138 s. ft.)	12'×10' (or 120 s. ft.)
24	12'×10' (or 120 s. ft.)	12'×10' (or 120 s. ft.)	8'×12' (or 96 s. ft.)	15'×6' (or 90 s. ft.)	12'×6' (or 72 s. ft.)
25	12'×10' (or 120 s. ft.)	12'×10' (or 120 s. ft.)	12'×10' (or 120 s. ft.)	..	..
26	17'×10' (or 170 s. ft.)	17'×10' (or 170 s. ft.)	16'×11' (or 176 s. ft.)	16'×11' (or 176 s. ft.)	18'×10' (or 180 s. ft.)
27	17'×13' (or 221 s. ft.)	17'×13' (or 221 s. ft.)	16'×12' (or 192 s. ft.)	16'×12' (or 192 s. ft.)	18'×11' (or 198 s. ft.)
28	8'×10' (or 80 s. ft.)	8'×10' (or 80 s. ft.)	8'×10' (or 80 s. ft.)	8'×10' (or 80 s. ft.)	8'×10' (or 80 s. ft.)
29	19'×16' (or 304 s. ft.)	19'×16' (or 304 s. ft.)	12'×19' (or 228 s. ft.)	16'×12' (or 192 s. ft.)	14'×12' (or 168 s. ft.)
30	16'×12' (or 192 s. ft.)	16'×12' (or 192 s. ft.)	12'×12' (or 144 s. ft.)	12'×11½' (or 138 s. ft.)	12'×10' (or 120 s. ft.)
31	8'×6' (or 48 s. ft.)	8'×6' (or 48 s. ft.)	8'×6' (or 48 s. ft.)	8'×6' (or 48 s. ft.)	8'×6' (or 48 s. ft.)
32	16'×6' (or 96 s. ft.)	16'×6' (or 96 s. ft.)	12'×6' (or 72 s. ft.)	12'×5' (or 60 s. ft.)	12'×5' (or 60 s. ft.)
8' Clear width on one side of the kitchen scullery, pantry, Bakery,					

(f) For storing groceries.

(g) Need not be provided if not considered necessary. Alternatively it may be an additional store.

(h) Not to be provided when there are other larger institutes in the station.

(b) Fixtures authorised.

Number and Name of Room [see sub-para. (a) above].	Fixtures.
1. Reading and Writing Room.	Picture Rail. Hooks or pegs as required.
3 & 8. Hall	Hooks or pegs as required.
4 & 9. Cloak Room	Two fixed basins or basin stands for two basins. Hooks or pegs as required.
5. Corporals Room	Picture Rail. Hooks or pegs as required.
6. Corporals Supper Room	Picture Rail.
7. Corporals Supper Issue Room.	Lift (if on 1st floor). Serving hatch into Corporals' Supper Room. Shelving as required.
10. Refreshment Room	Picture Rail. Movable platform at one end of the Room for use at lectures or meetings. In Institutes for up to 100 men this movable platform may be provided only if considered necessary.
11. Supper Issue Room	Shelving as required. Serving hatches into Refreshment and Temperance Rooms.
12. Bar or Issue Room	Shelving as required.
13. Beer Store	Stands for beer barrels.
14. Temperance Room	Picture Rail.
15. Games Room	Picture Rail. 1 shelf cupboard built into the wall.
16. Billiard Room	1 shelf cupboard built into the wall. Fixed seats as required. Hooks or pegs as required.

(b)—contd.

Number and Name of Room [see sub-para. (a) above].	Fixtures.
17. Grocery Bar . . .	Counter with flap door. Shelving as required.
18. Store Room . . .	Shelving as required.
19. Office . . .	1 shelf cupboard built into the wall. Shelving as required.
20. Store . . .	Shelving as required.
21. Dressing Room . . .	One fixed basin or basin stand for one basin. Hooks or pegs as required.
22. Bakery . . .	One or more ovens as required. Shelving as required.
23. Pantry . . .	Sinks with hard wood grooved draining boards. Racks for crockery. Shelving. } as required.
24. Lavatory . . .	Fixed basins or basin stands (num- bers according to space avail- able). One hook or peg per basin.
25. Mineral Water Factory .	Shelving as required.
26. Bed Room . . .	1 combined shelf and hanging cup- board built into the wall. 1 projecting shelf with 4 pegs or hooks underneath.
27. Sitting Room . . .	1 shelf cupboard built into the wall. 1 projecting shelf with 4 pegs or hooks underneath.
28. Bath Room . . .	1 fixed angle wash stand. 1 towel rail. 1 projecting shelf with 4 pe hooks underneath.

(b)—concd.

Number and Name of Room [see sub-para. (a) above].	Fixtures.
29. Kitchen	1 cooking range. 1 ground sink. 1 shelf over sink on one side with 5 pegs or hooks underneath.
30. Scullery	One or more sinks with hard wood grooved draining boards as required. 1 plate rack over each sink. Shelving as required.
31. Meat Store	Iron rods for carrying meat hooks. Shelving as required.

27. Prayer Rooms - British Troops.

Units for whom accommodation is authorized.	Main Room	Verandah Rooms at ends of Main Room	Porch.
	S. ft.	S. ft.	S. ft.
Cavalry Regiment All stations	432	Two, each 112	100
Infantry Battalion Plains .	720	"	100
Do. do. Semi-Hill .	570	"	100
Do. do. Hill . . .	420	"	100
Add for each Infantry Battalion more than one.	Plains .	Nil.	Nil.
	Semi-Hill .	"	"
	Hill .	"	"
R. A. Battery Plains .	180	"	"
Do. do. — Semi-Hill .	143	"	"
Do. do. — Hill . . .	105	"	"
Add for each R. A. Battery more than one.	Plains .	"	"
	Semi-Hill .	"	"
	Hill . . .	"	"

A verandah 8' clear width along the front of the Main Room is authorised; this verandah will connect up to the verandah rooms at the ends of the Main Room where these Verandah Rooms are authorised.

The re-appropriation or mis-appropriation of Prayer Rooms for any other purpose is not permitted.

Hooks or pegs are provided as fixtures where required.

The area of the Main Room for an Infantry Bn. and a Battery would be the sum of the full scales allowed above for a single Bn. and a single Battery respectively. For each additional Bn. or Battery the reduced area given above would be added.

28. Schools.

(a) Men's Schools.

(i) Class Rooms.

Accommodation will be provided for class rooms of both British and Indian Troops on a scale of 23 s.ft. per man for $12\frac{1}{2}$ per cent. of the peace establishment (up to and including Indian Officers holding Viceroy's Commissions) of the Unit or Units for which the school is required.

No class room will be built to contain more than 40 men. Class rooms will be separated, as far as possible, by sliding partitions to enable two or more rooms being turned into one when required.

(ii) Lavatory.

A lavatory on scales laid down in para. 11 (b) will be provided in the verandah of schools for British Troops on the following basis:—

	No. of Basins.
Schools for 16 to 32 men	1
„ „ 33 to 64 men	2
„ „ 65 to 96 men	3
„ „ 97 men and over	4

(b) Children's Schools.

(i) Class Rooms.

Accommodation will be provided for class rooms of children of British Troops on a scale of 20 s. ft. per child for 4 per ce

(b)—concd.

Number and Name of Room [see
sub-para. (a) above].

Fixtures.

29. Kitchen 1 cooking range.
1 ground sink.
1 shelf over sink on one side with 5
pegs or hooks underneath.
30. Scullery One or more sinks with hard wood
grooved draining boards as re-
quired.
1 plate rack over each sink.
Shelving as required.
31. Meat Store Iron rods for carrying meat hooks.
Shelving as required.

27. Prayer Rooms.—British Troops.

Units for whom accommodation is authorised.	Main Room	Verandah Rooms at ends of Main Room	Porch.
	S. ft.	S. ft.	S. ft.
Cavalry Regiment . . . — All stations	432	Two, each 112	100
Infantry Battalion . . . — Plains .	720	..	100
Do. do. Semi-Hill .	570	..	100
Do. do. — Hill . . .	420	..	100
Add for each Infantry Battalion more than one.	{ Plains .	360	Nil.
	{ Semi-Hill .	285	..
	{ Hill .	210	..
R. A. Battery Plains . .	180	..	..
Do. do. — Semi-Hill .	143	..	..
Do. do. — Hill . . .	105	..	..
Add for each R. A. Bat- tery more than one.	{ Plains . .	90	..
	{ Semi-Hill .	72	..
	{ Hill . . .	53	..

A verandah 8' clear width along the front of the Main Room is authorised; this verandah will connect up to the verandah rooms at the ends of the Main Room where these Verandah Rooms are authorised.

The re-appropriation or mis-appropriation of Prayer Rooms for any other purpose is not permitted.

Hooks or pegs are provided as fixtures where required.

The area of the Main Room for an Infantry Bn. and a Battery would be the sum of the full scales allowed above for a single Bn. and a single Battery respectively. For each additional Bn. or Battery the reduced area given above would be added.

28. Schools.

(a) Men's Schools.

(i) Class Rooms.

Accommodation will be provided for class rooms of both British and Indian Troops on a scale of 23 s. ft. per man for 12½ per cent. of the peace establishment up to and including Indian Officers holding Viceroy's Commissions) of the Unit or Units for which the school is required.

No class room will be built to contain more than 40 men. Class rooms will be separated, as far as possible, by sliding partitions to enable two or more rooms being turned into one when required.

(ii) Lavatory.

A lavatory on scales laid down in para. 11 (b) will be provided in the verandah of schools for British Troops on the following basis:—

Schools for 16 to 32 men	No. of Basins.
" " 33 to 64 men	1
" " 65 to 96 men	2
" " 97 men and over	3
	4

(b) Children's Schools.

(i) Class Rooms.

Accommodation will be provided for class rooms of children of British Troops on a scale of 20 s. ft. per child for 4 per cent. of

(b) (i)—contd.

the peace establishment (in Rank and File) of the Unit or Units for which the school is required.

No class room will be built to contain more than 40 children [see sub-para. (a) (i) above] and class rooms for over 25 children should be divisible into two rooms by means of a moveable partition.

(ii) Cloak rooms.

Two cloak rooms (one for boys and the other for girls), each on a scale of 4 s.ft. per scholar, will be provided in the north and south verandahs respectively.

(iii) Playgrounds.

The school building will be sited east and west and will have two playgrounds, one for boys and the other for girls; each 60 yards by 30 yards, one on the north side and the other on the south side.

The playground will be enclosed by a wall or fence.

The ground will be levelled and drained, and the surface prepared so that it does not break up into dust and is dry and clear in all weathers.

Each playground will be provided with two posts and rings for basket ball, and, at one end, with a swing and see-saw.

(iv) Lavatory.

Two lavatories, one for boys and the other for girls, on scales laid down in para. 11 (b), will be provided in the north and south verandahs respectively.

(c) Verandahs.

(i) For British Troops and Children.

10' clear width all round in plains stations.

8' clear width in back and front in semi-hill stations.

8' clear width in front in hill stations.

(ii) For Indian Troops.

8' clear width back and front in plains and semi-hill stations.

8' clear width in front in hill stations.

(d) Latrines and Urinals.

(i) Latrines.

Where there are no latrines near at hand separate blocks of latrines for Boys and Girls will be provided on a scale of 6 per cent. of the class room accommodation (minimum 2 compartments) as laid down in para. 12 (b).

For Indian Men latrines will similarly be provided on a scale of 6 per cent. of the class room accommodation (minimum 2 compartments) as laid down in para. 25 (b).

(ii) Urinals.

Urinal compartments for British Men and Boys and for Indian Men will be provided as part of the latrine block [see (i) above] on a scale of 2 per cent. of the class room accommodation, as laid down in paras. 12 (c) and 25 (c) respectively.

(e) Fixtures.

In Class Rooms . . . Shelving as required.

In Cloak Rooms . . . Two pegs per child, one for hat and one for coat.

In Verandahs . . . Hooks or pegs as required outside each class room door except in children's schools.

(f) Fuel Store.

In stations where fuel is authorised a small portion of the verandah may be enclosed as a fuel store.

(g) General.

The accommodation authorised above may be provided separately by Units or combined together as station or area schools as required in each particular case.

A separate school will not usually be constructed for less than 20 pupils.

Schools should not be located near an Institute, Canteen, Sergeants' Mess, or Band Barrack.

(h) Quarters for Schoolmistresses.

Quarters for Schoolmistresses should be attached to one end of the school building, and should be provided with a separate compound.

An unmarried schoolmistress is not to be allotted quarters in a detached building or in the block for married rank and file, but should be given Class VIII Quarters in the Junior W. O.s' Block.

(b) (i)—contd.

the peace establishment (in Rank and File) of the Unit or Units for which the school is required.

No class room will be built to contain more than 40 children [see sub-para. (a) (i) above] and class rooms for over 25 children should be divisible into two rooms by means of a moveable partition.

(ii) Cloak rooms.

Two cloak rooms (one for boys and the other for girls), each on a scale of 4 s.ft. per scholar, will be provided in the north and south verandahs respectively.

(iii) Playgrounds.

The school building will be sited east and west and will have two playgrounds, one for boys and the other for girls; each 60 yards by 30 yards, one on the north side and the other on the south side.

The playground will be enclosed by a wall or fence.

The ground will be levelled and drained, and the surface prepared so that it does not break up into dust and is dry and clear in all weathers.

Each playground will be provided with two posts and rings for basket ball, and, at one end, with a swing and see-saw.

(iv) Lavatory.

Two lavatories, one for boys and the other for girls, on scales laid down in para. 11 (b), will be provided in the north and south verandahs respectively.

Verandahs.

(i) For British Troops and Children.

10' clear width all round in plains stations.

8' clear width in back and front in semi-hill stations.

8' clear width in front in hill stations.

(ii) For Indian Troops.

8' clear width back and front in plains and semi-hill stations.

8' clear width in front in hill stations.

(d) Latrines and Urinals.

(i) Latrines.

Where there are no latrines near at hand separate blocks of latrines for Boys and Girls will be provided on a scale of 6 per cent. of the class room accommodation (minimum 2 compartments) as laid down in para. 12 (b).

For Indian Men latrines will similarly be provided on a scale of 6 per cent. of the class room accommodation (minimum 2 compartments) as laid down in para. 25 (b).

(ii) Urinals.

Urinal compartments for British Men and Boys and for Indian Men will be provided as part of the latrine block [see (i) above] on a scale of 2 per cent. of the class room accommodation, as laid down in paras. 12 (c) and 25 (c) respectively.

(e) Fixtures.

In Class Rooms . . . Shelving as required.

In Cloak Rooms . . . Two pegs per child, one for hat and one for coat.

In Verandahs . . . Hooks or pegs as required outside each class room door except in children's schools.

(f) Fuel Store.

In stations where fuel is authorised a small portion of the verandah may be enclosed as a fuel store.

(g) General.

The accommodation authorised above may be provided separately by Units or combined together as station or area schools as required in each particular case.

A separate school will not usually be constructed for less than 20 pupils.

Schools should not be located near an Institute, Canteen, Sergeants' Mess, or Band Barrack.

(h) Quarters for Schoolmistresses.

Quarters for Schoolmistresses should be attached to one end of the school building, and should be provided with a separate compound.

An unmarried schoolmistress is not to be allotted quarters in a detached building or in the block for married rank and file, but should be given Class VIII Quarters in the Junior W. O.s' Block.

(b) (i)—contd.

the peace establishment (in Rank and File) of the Unit or Units for which the school is required.

No class room will be built to contain more than 40 children [see sub-para. (a) (i) above] and class rooms for over 25 children should be divisible into two rooms by means of a moveable partition.

(ii) Cloak rooms.

Two cloak rooms (one for boys and the other for girls), each on a scale of 4 s.ft. per scholar, will be provided in the north and south verandahs respectively.

(iii) Playgrounds.

The school building will be sited east and west and will have two playgrounds, one for boys and the other for girls; each 60 yards by 30 yards, one on the north side and the other on the south side.

The playground will be enclosed by a wall or fence.

The ground will be levelled and drained, and the surface prepared so that it does not break up into dust and is dry and clear in all weathers.

Each playground will be provided with two posts and rings for basket ball, and, at one end, with a swing and see-saw.

(iv) Lavatory.

Two lavatories, one for boys and the other for girls, on scales laid down in para. 11 (b), will be provided in the north and south verandahs respectively.

(c) Verandahs.

(i) For British Troops and Children.

10' clear width all round in plains stations.

8' clear width in back and front in semi-hill stations.

8' clear width in front in hill stations.

(ii) For Indian Troops.

8' clear width back and front in plains and semi-hill stations.

8' clear width in front in hill stations.

(d) Latrines and Urinals.

(i) Latrines.

Where there are no latrines near at hand separate blocks of latrines for Boys and Girls will be provided on a scale of 6 per cent. of the class room accommodation (minimum 2 compartments) as laid down in para. 12 (b).

For Indian Men latrines will similarly be provided on a scale of 6 per cent. of the class room accommodation (minimum 2 compartments) as laid down in para. 25 (b).

(ii) Urinals.

Urinal compartments for British Men and Boys and for Indian Men will be provided as part of the latrine block [see (i) above] on a scale of 2 per cent. of the class room accommodation, as laid down in paras. 12 (c) and 25 (c) respectively.

(e) Fixtures.

In Class Rooms . . . Shelving as required.

In Cloak Rooms . . . Two pegs per child, one for hat and one for coat.

In Verandahs . . . Hooks or pegs as required outside each class room door except in children's schools.

(f) Fuel Store.

In stations where fuel is authorised a small portion of the verandah may be enclosed as a fuel store.

(g) General.

The accommodation authorised above may be provided separately by Units or combined together as station or area schools as required in each particular case.

A separate school will not usually be constructed for less than 20 pupils.

Schools should not be located near an Institute, Canteen, Sergeants' Mess, or Band Barrack.

(h) Quarters for Schoolmistresses.

Quarters for Schoolmistresses should be attached to one end of the school building, and should be provided with a separate compound.

An unmarried schoolmistress is not to be allotted quarters in a detached building or in the block for married rank and file, but should be given Class VIII Quarters in the Junior W. O. Block.

29. Offices.

(a) General Scales.

The following general scales for determining the areas of offices are of universal application, except where otherwise stated below:—

(i) Offices.

In all scales for the sizes of offices the term “ Unit ” means an area of:—

72 s.ft. in plains stations.

60 s.ft. in semi-hill stations.

48 s.ft. in hill stations.

Office to accommodate.	Accommodation authorised.
One Officer	3 Units.
Two or more officers in one room.	2 Units per Officer.
Departmental-- Officers, W. Os. N. C. Os. in charge of separate offices, e.g., Sub-Divisional Officers in the M. E. S.	As above for Officers.
Clerks	1 Unit per clerk <i>plus</i> 1 Unit extra per room for expansion.
Officers and Clerks in the same room.	2 Units per Officer, <i>plus</i> 1 Unit per clerk, <i>plus</i> 1 Unit extra per room for expansion.

(ii) Record and Stationery Rooms.

No definite scales are laid down. Each case will be considered on its merits and the most economical arrangements to suit requirements will be decided by the C. F. A. for the storage of records.

Whenever suitable Record and Stationery Rooms will be situated in the office verandah.

(iii) Bath Rooms.

Of scales and with fixtures laid down for Class IV—Unit Quarters for Single Officers [see paras. 2 (d) and 3 (b)].

One Bath Room is authorised for British Officers and one for British Other Ranks (if any) for whom accommodation is pro-

(a) (iii)—contd.

vided in the office. Bath Rooms will be constructed in the office verandah.

(iv) Verandahs.

8' clear width all round in plains stations.

7' clear width on 3 sides in semi-hill stations.

6' clear width in front in hill stations.

(v) Urinals.

Urinals for Indian clerks will only be provided if no urinal or latrine is near.

The details of such Urinals will be as laid down in para. 25 (c) (i), and the numbers provided will be on a scale of 2 per cent. of the number of Indian clerks for whom accommodation is provided in the office.

(b) Regimental Offices.

Regimental Offices for a Cavalry Regt., R. A. Bde. H.Q., Infantry Bn., and similar Units, will comprise the following accommodation:—

(i) Office of Commanding Officer 5 Units

(ii) Office of 2nd in Command 5 Units.

Normally to accommodate 1 Officer and 2 Clerks.

To be reduced proportionately if clerks do not work in this office.

NOTE.—In the case of R. A. Bde. H. Q. this room will accommodate the Adjutant, Orderly Officer, and 1 Clerk.

(iii) Adjutant's Office 4 Units.

Normally to accommodate 1 Officer and 1 Clerk.

To be reduced proportionately if the clerk does not work in this office.

NOTE.—Not required for R. A. Bde. H. Q.

(iv) Quartermaster's Office (see para. 35).

On the scales laid down in sub-para. (a) (i) above.

Normally to accommodate 1 Officer and 1 Clerk.

Quartermasters' Offices in the case of Indian Infantry Bns. usually form part of the Regimental Offices Block and in the

(b) (iv)—contd.

case of British Infantry Bns. of the Quartermasters' Stores Block; these arrangements may be varied to suit local conditions.

For Units which have no Quartermaster (*e.g.*, R.A. Units, Armoured Car Coys., etc.) or for small detached units an office may be provided in the Quartermasters' Stores Block for the Coy. (Battery, etc.), Quartermaster Sergeant (Havildar, etc.) and his clerks; in such offices the "1 Unit Extra for expansion" as authorised by sub-para. (a) (i) above will not be allowed.

(v) Accountant's Office.

On the scales laid down in sub-para. (a) (i) above.

(vi) Clerks' Office.

On the scales laid down in sub-para. (a) (i) above.

(vii) Record and Stationery Rooms, Bath Rooms, Verandahs, and Urinals.

On the scales laid down in sub-para. (a) (i) above.

(c) Small Units.

(i) The Offices of Squadrons, Coys., etc., will normally consist of a single room for both officers and clerks, on the scales laid down in sub-para. (a) (i) above, to accommodate 1 officer and the number of clerks (including Pay N. C. Os.) which the Unit is authorised to employ.

(ii) In the case of the undermentioned Units two rooms will be provided, one to accommodate two officers and the other to accommodate the authorised number of clerks:—

R. A. Units (Batteries, Ammunition Columns, etc.).

Armoured Car Coy.

H. Q. and 2 Sections Armoured Car Coy.

(iii) In the case of the undermentioned Units two rooms will be provided, one to accommodate 1 Officer and the other to accommodate the authorised number of clerks:—

Transport Coys. (Cavalry Bde., Infantry Bde., Divisional Troops, Mule, Camel).

Transport Detachment (Sub-Division or Half Coy. only).

Transport Dépôt.

(c) (iii)—contd.

When the O. C. Unit is also Station Transport Officer (except in the case of Transport Detachment) one extra room of 8 Units is authorised.

NOTE 1.—The Office of a Small Unit should, whenever possible, be combined with the Regimental Office Block; when built apart from the Regimental Offices subsidiary accommodation may be provided on the scales laid down in sub-para. (a) above, clauses (ii) to (v).

NOTE 2.—As regards Quartermasters' Offices see sub-para. (b) (iv) above.

NOTE 3.—In the case of single room offices for small Units (see clause (i) above) the "1 Unit per room for expansion" authorised under sub-para. (a) (i) above will be omitted.

NOTE 4.—Offices for British Cavalry Squadrons and for British Infantry Regts. are not authorised.

(d) Special Units and Departments.

Office accommodation for Special Units and Departments (e.g., Signal Units, Corps H. Q. of S. and M., M. B. S., etc.) will be provided in accordance with the scales laid down in sub-para. (a) above and will be arranged to suit the organization of the Unit concerned. The general principles contained in sub-para. (b) and (c) above will be adhered to.

(e) Auxiliary and Territorial Force Units.

Office accommodation on the scales laid down in sub-para. (a) above will be provided:—

(i) For each Regt. of Cavalry, Bde. of Artillery, or Bn. of Infantry:—

One Office for Commanding Officer and Adjutant.

One Office for clerks.

With Record and Stationery Rooms, Bath Rooms, Verandah, and Urinals as in sub-para. (a) above.

(ii) For each detached Squadron, Battery, or Coy:—

One office for 1 officer and 1 clerk.

With Bath Rooms, Verandah, and Urinals as in sub-para. (a) above.

(f) Fixtures.

The following fixtures are authorised in all offices:—

(i) In Office Rooms Shelving as required.

(ii) In Record and Stationery Rooms. Desks suitable for writing files.
Shelving as required.

30. Guards and Picquets—British Troops.

(a) Quarter Guards and Detention Rooms—

These are provided on the following scales:—

(i) Main Block—

Building.	Number of men for whom provision is made in Unit whose establishment of Rank and File is:—			
	Over 600.	Between 350 and 600.	100 to 350.	Under 100.
Guard Room	18	12	7	4
Guard Detention Room	12	8	6	2
Provost Sergeants' Quarter	a)	(a)	...	...

The Guard Room and Guard Detention Room will be constructed in accordance with the scales laid down for British Troops Barracks (see para. 7), excluding Store Room and Single Sergeants' Quarters. See para. 50 regarding Armoured Car Coys.

(ii) Barrack Detention Block—

Barrack Detention Rooms are provided on a scale of $\frac{3}{4}$ per cent. (all fractions being ignored) of the establishment of the unit in Rank and File, subject to the following minimum numbers:—

Units whose establishment in Rank and File is less than 100. 1 Barrack Detention Room.

Units whose establishment in Rank and File is 100 or over. 2 Barrack Detention Rooms.

Barrack Detention Rooms will be built of the following size:—

Plains 130 s. ft.
Semi-Hill 115 s. ft.
Hill 100 s. ft.

(a) Only authorised for Cavalry Regt. or Infantry Bn., on the scale laid down for a Single Sergeant's Quarter (see para. 7).

(a) (ii)—contd.

Verandahs for the Barrack Detention Block will be provided on the following scales:—

Plains	8' clear width all round.
Semi-Hill	6½' clear width in front.
Hill	5' clear width in front.

(iii) Wash House and Baths

Latrines.

Urinals.

Provided on the scales laid down in paras. 11 and 12.

The " establishment ", on which the provision to be made is calculated, will be the total number which the Main Block and the Barrack Detention Block are built to accommodate, including both the Guard and soldiers under detention.

The latrine and urinal block will be connected to the main block by a 5' covered passage.

(b) Night Picquet Guard Room.

Will only be constructed if considered necessary by the local authorities. Whenever possible the night picquet should be accommodated in the Guard Room. The Night Picquet Guard Room will consist of a room (without verandahs) whose area will be determined from the scales laid down in para. 7 according to the number of men in the night picquet excluding those actually posted as sentries.

(c) Quarter Guards, Detention Rooms, and Cells, will be provided for the Indian other ranks of British Units in accordance with the scales laid down in para. 31, except that a " Guard Room " will not be provided unless actually required. This accommodation may form part of another building if convenient, *e.g.*, the one cell authorised for the Indian other ranks of a British Bn. would normally form a part of the Barrack Detention Block. A Guard Room will not be provided for the Indian ranks of Divisional and District Signals.

(d) Fixtures, etc.

- (i) Fireplaces in the Guard Room and Guard Detention Room may be provided at stations where fuel is authorised. If Barrack Detention Rooms are used in Winter, warming apparatus will be provided.
- (ii) Ring bolts should be built into the walls or floor of the Guard Room to which the treasure chest can be fastened. Chains for fastening treasure chests to the floor should also be provided.

- (d) (iii) Detention Rooms should be provided with iron barred doors outside which wooden doors should be fitted; the latter will have apertures with noiseless slides which can be moved from the outside.
- (iv) The distance between the iron bars of doors and windows in Detention Rooms should not exceed 5".
- (v) Cots in Detention Rooms should be bolted to the floor.
- (vi) A pair of iron brackets for bedding and two pegs or hooks for accoutrements should be provided outside each Barrack Detention Room.
- (vii) The Provost Sergeant's quarter will be provided with fixtures in accordance with the scales laid down in para. 8 (b).
- (viii) Sentry boxes should be provided as a fixture on a scale of one for each building which has not got a verandah and over which a British sentry is regularly posted, and one for each British squadron or battery where horse lines are in the open.

31. Guards and Picquets—Indian Troops.

(a) Quarter Guards and Detention Rooms.

(i) Main Block—

Building.	Number of men for whom provision is made in Unit whose establishment of Rank and File is:—				
	Over 600.	Over 350 to 600.	Over 150 to 350.	50 to 150.	Under 50.
Guard Room	15	12	7	4	4
Guard Detention Room	4	3	3	2	...
Cells, each 100 s. ft.	3	2	2	1	1

The Guard Room and Guard Detention Room will be constructed in accordance with the scales laid down for Indian Troops

(a) (i)—contd.

Barracks (see para. 21) excluding the Store Room and Single N. C. O.'s Quarters.

The verandah will be provided along the front only of the Main Block.

(ii) Latrines and Urinals—

Provided on the scales laid down in para. 25. The "establishment", on which the provision to be made is calculated, will be the total number which the Main Block is built to accommodate, including both the Guard and soldiers under detention.

(b) Night Picquet Guard Room.

Will only be constructed if considered necessary by the local authorities.

Whenever possible the night picquet should be accommodated in the Guard Room.

The Night Picquet Guard Room will consist of a room (without verandahs) whose area will be determined (from the scales laid down in para. 21) according to the number of men in the night picquet excluding those actually posted as sentries.

(c) Quarter Guards and Detention Rooms will be provided for the British other ranks of Indian Units in accordance with the scales laid down in para. 30, except that no provision will be made for numbers less than 30.

(d) Fixtures, etc.

(i) Fireplaces in the Guard Room and Guard Detention Room may be provided at stations where fuel is authorised. If cells are used in winter, warming apparatus will be provided.

(ii) Ring bolts should be built into the walls or floor of the Guard Room, to which the treasure chest can be fastened. Chains for fastening treasure chests to the floor should also be provided.

(iii) Detention Rooms and Cells should be provided with iron barred doors outside which wooden doors should be fitted; the latter will have apertures with noiseless slides which can be moved from the outside.

(iv) The distance between the iron bars of doors and windows in Detention Rooms and Cells should not exceed 5".

(v) Sentry boxes should be provided as a fixture when specially sanctioned by the G. O. C. Dist.

32. Training and Recreation Grounds.**(a) Parade Grounds.**

Authorised for all Regular Units but not for Auxiliary or Territorial Force Units.

Their size depends on the circumstances of each Unit but Govt. sanction to their acquisition is necessary. The metalling or gravelling of parade grounds is not authorised, but the levelling of an area to form a parade ground may be carried out as an authorised work.

(b) Field Works Grounds.

Authorised of the sizes given below:—

Unit.	Area authorised. Yards.
S. & M. Corps H. Q.	2,000 × 1,000
Field Troop S. & M. away from H. Q.	200 × 200
Field Coy. S. & M. away from H. Q.	500 × 200
Army Troops Coy. S. & M. away from H. Q.	100 × 100
Divisional H. Q. Coy. S. & M. away from H. Q.	100 × 100
Indian Pioneers Corps H. Q.	2,000 × 1,000
Indian Pioneers Active Bn. (when detached)	1,000 × 1,000
Hazara Pioneers	2,000 × 1,000

(c) Recreation Grounds for British Troops.

An area not exceeding 150 yards square per Bn. or equivalent unit may be levelled and prepared near the barracks as a recreation ground for British Troops; of this area 50 yards square may be turfed and fenced in for a cricket pitch.

33. Plunge Baths.

(a) Plunge Baths are authorised for all British Cavalry Regiments for instruction in swimming, and may be provided at stations where such facilities do not already exist.

(b) The accommodation to be provided will be:—

Bath	46' × 14'
Two passages containing two shower bath compartments, each	48 s. ft.
Dressing Room	200 s. ft.
One Urinal compartment	See para. 12 (c).

(b)—contd.

Benches and hooks or pegs as required will be provided as fixture in the Dressing Room.

NOTE.—The shower baths are intended to enable men to cleanse themselves before entering the bath.

(c) Existing swimming baths in the lines of the British Troops may be used and maintained [including provision of fixtures as in sub-para. (b) above].

34. Rifle and Machine Gun Ranges.

(a) Authorised Scales.

Ranges either for British or Indian Troops will be constructed from M. E. S. funds and are authorised on the following scales:—

Unit	600 yards classifi- cation Ranges	Miniature Ranges.	30 Yards Ranges.
Cavalry Regt.	8	4	One
S. & M.—Corps H. Q.	12	12	One
S. & M.—Divisional H. Q. Coy. when perma- nently detached from Corps H. Q.	2	2	One
S. & M.—Field Troop when permanently detached from Corps H. Q.	4	2	One
Infantry Bn.	8	4	One
Gurkha Rifle Bn.	8	4	One
Indian Pioneers—Active Bn.	8	4	One
„ „ —Corps H. Q. (including 2 Training Coys.)	2	4	One
Hazara Pioneers	8	4	One
Permanent detachments of not less than a squadron of Cavalry, a Coy. of Infantry, or the following S. & M. Units—Field Coy., Rail- way Coy., Army Troops Coy.	4	4	One
Signal Training Centre	12	12	One

NOTE.—Ranges should not normally be provided for smaller units where the amount of range shooting carried out is small. Where, however, ranges are essential for these smaller units (including Indian Signal Corps) they will be provided on the same scale as above for permanent detachments of not less than a squadron of Cavalry, etc.

(b) Classification Ranges.—General Notes.

- (i) Classification ranges will be sited and designed in accordance with the rules laid down in Small Arms Training, Vol. III.
- (ii) New permanent rifle ranges will be constructed on the "gallery" system, and existing "trolley" system ranges will be converted as funds become available.
- (iii) A range may consist of any number of targets. The distance between targets will be 12' from centre to centre, but where the number of targets exceeds eight an interval of 16' will be left between each group of four targets.

- (iv) The M. E. S. are responsible for the provision and maintenance of:—

Stop butt and bullet catcher.

Markers butts with walls and roofs.

Hut for storing targets. [See (vii) below.]

Firing Points, including stone flags to mark the distances.

Flag staff on stop butt, with ladder or steps up to it.

Fixed bench for markers in the markers' butts opposite each target.

Hythe pattern target carriers complete, or Windmill pattern target uprights and revolving carriers complete (see note 2).

Trolleys, Rails, and Sleepers.

Target " numbers ", and " letters " required to distinguish between parallel ranges.

NOTE 1.—All earthwork (i.e., stop butts and firing points) of rifle ranges will be maintained by the M. E. S. with the exception of minor repairs and the restoration of the profile of the stop butt to its correct slope, which are necessary after practice and the recovery of lead. These are the responsibility of the unit or units in charge of the range.

NOTE 2.—For temporary ranges, or where cheapness is essential, windmill pattern target uprights and carriers should be employed.

- (v) The Unit in charge of the range is responsible for the provision and maintenance of:—

Target Frames.

Paper Targets and patches.

Marking discs.

Accessories not allowed by the Equipment Tables.

Minor repairs to earthworks [see Note 1 above].

Telephones.

- (b) (vi) Under the authority of the Equipment Tables the I.A.O.C. are responsible for the supply of the following articles:—

Flags, Red, 6' square.

Flags, Red, 4' × 3'.

Flags, Red and White $2\frac{1}{2}'$ square.

Poles, 10'.

- (vii) Target Huts are authorised as follows:—

Up to 8 targets . . . One hut 25' × 12'

From 8 to 16 targets . . . One hut $37\frac{1}{2}'$ × 12'.

Over 16 targets . . . Two huts, each 25' × 12'.

Where one target hut is authorised it will be situated on the flank of the markers butts at whichever end is most convenient; where two huts are authorised they will be situated one on each flank of the markers butts.

Each Target Hut will be provided with a wide door in the middle facing the Stop Butt and also with shelves or racks for discs, flags, etc., fixed in the end wall away from the door.

- (c) Miniature Ranges and 30 Yards Ranges—General Notes.

- (i) The provisions of sub-para. (b) clauses (iv) and (v) above may be taken to apply generally to Miniature and 30 Yards Ranges.

- (ii) A Miniature Range will be constructed in accordance with the rules laid down in Small Arms Training, Volume III, Chapter V.

A target hut 100 s. ft. is authorised for each miniature range.

- (iii) A 30 Yards Range will be constructed in accordance with the rules laid down in Small Arms Training, Volume III, Chapter III, except that Target Stores and shelter are not authorised.

- (d) Auxiliary and Territorial Force Ranges.

- (i) Classification ranges, as described in sub-para. (b) above, for Regular Units, are authorised on a scale of one target per 200 men actually on the strength of a Unit.

- (ii) 30 Yards Ranges [see sub-para. (c) above] are authorised works.

- (iii) Miniature Ranges [see sub-para. (c) above] of 4 targets as a minimum may be provided if considered necessary by the local military authorities.

- (d) (iv) The maintenance of Ranges as laid down in sub-paras. (b) (iv) and (c) (i) above will be undertaken by the M. E. S.

35. Quartermasters' Stores—Offices, etc.

The following accommodation is authorised for the storage of the clothing, equipment, etc., of units:—

(a) Store Rooms—British and Indian Troops.

- (i) The floor area allowed is calculated on the following scale:—

British Troops—All ranks excluding officers . 3 s. ft. per man.

Indian Troops—All ranks excluding officers and followers 1½ „ „

Horses, mules, etc. 1 s. ft. per animal.

Motor vehicles with 4 or more wheels 8 s. ft. per vehicle.

NOTE.—In the case of the following units additional accommodation based on the undernoted scales will be provided:—

	S. ft. per man.
British Cavalry Regiment	4½
Indian Signal Units—	
British ranks	4
Indian ranks	3
Indian Infantry Battalion	½

- (ii) The Store Rooms will normally be built in a single block divided into compartments as may be necessary to suit the organization of the unit.

A verandah will be provided along one side of the "Store Room Block" of clear width 8' in plains stations and 6' in semi-hill and hill stations.

(b) Mobilization Equipment Store Rooms.

Storage accommodation for mobilization equipment, in addition to the accommodation provided under sub-para. (a) above, is authorised, but new buildings require Government sanction. No scales are laid down and each case will be considered on its merits.

When constructed these Store Rooms will usually form a part of the Store Room Block [see sub-para. (a) (ii) above].

(c) Fixtures.

The following fixtures will be provided in the above Store Rooms:—

Three tier racks 3' wide and 8' high. The normal width of Store Rooms is 16' in which case the racks will be built all round the walls; the racks may, however, be fixed down the centre of the Store Rooms as well as round the sides, the arrangement made being the most economical having regard to the dimensions of the Store Room.

Rods as required on which waterproof sheets can be hung; these rods will be fixed at a suitable height by being suspended from the roof, bracketed to the walls or racks, or fixed as otherwise found suitable.

(d) Reservists' Kit Store Rooms.

These are authorised, in addition to the accommodation provided under sub-para. (a) above, at the stations indicated below:—

Units.	Station.
Indian Cavalry Units . . .	Cavalry Group Centres.
Horse, Field and Medium Artillery.	Royal Artillery Training Centres.
Mountain Artillery Units . . .	Headquarters.
S. and M. Units . . .	Corps H. Q.
Indian Signal Corps . . .	Signal Training Centre.
Indian Infantry Units . . .	Training Bns.
Indian Pioneer Units . . .	Corps H. Q.
Gurkha Units . . .	Gorakhpur.
Hazara Pioneers . . .	Lines of the Unit.
Animal Transport Units . . .	Transport Depôts.
Mechanical Transport Units . . .	Permanent Mechanical Transport Stations except Fatehgarh.

Floor space will be calculated at 115 s. ft. per 100 kits.

Racks 10 ft. high, in tiers, will be provided as fixtures.

Where constructed these Store Rooms will usually form a part of the Store Room Block [see sub-para. (a) (ii) above].

(e) Recruits Clothing and Equipment Store Rooms.

These are authorised, in addition to the accommodation provided under sub-para. (a) above, for Indian Infantry Training Bns. and Corps H. Q. of Indian Pioneers.

Scales, etc., will be as laid down in sub-para. (d) above.

(f) Baggage Rooms.

Stores for the baggage of absentee Bns. are authorised in addition to the accommodation provided under sub-para. (a) above, for Indian Infantry Training Bns.

The floor area allowed will be 720 s. ft. for every two Companies of the Training Bn.

For Indian Pioneers, a store 720 s. ft. per Corps H. Q. and 360 s. ft. for Hazara Pioneers is authorised.

These Baggage Rooms will usually form a part of the Store Room Block [see sub-para. (a) (ii) above].

(g) Quartermaster's Office.

See para. 29 (b) (iv) and para. 29 (c) Note 2.

(h) Urinals.

These will only be provided when no latrine or urinal is situated near the "Store Room Block".

One compartment will be provided for British Troops as laid down in para. 12 (c), and one compartment for Indian Troops as laid down in para. 25 (c).

(i) Auxiliary Force (India).

The following accommodation is authorised:—

(i) For each Cavalry Regt., Artillery Bde., or Infantry Bn.

Store Rooms [see sub-para. (a) (ii) above] at 1 s. ft. per man on the establishment.

Quartermaster's Office [see sub-para. (g) above]—3 Units [see para. 29].

Verandah along one side of clear width 8' in plains and 6' in semi-hill and hill stations.

(ii) For each detached Squadron, Battery, or Company Store Rooms [see sub-para. (a) (ii) above] at 2 s. ft. per man on the establishment.

Verandah along one side of clear width 8' in plains stations and 6' in semi-hill and hill stations.

(j) Indian Territorial Bns.

The following accommodation is authorised as "Kit Store Rooms".
Floor Area 115 s. ft. per 100 kits to be stored.

Racks 10 ft. high, in tiers, will be provided as fixtures.

Verandah along one side of clear width 8' in plains stations and 6' in semi-hill and hill stations.

36. Ration Stores.

(a) For British Troops.

May be provided as "unauthorised" works (see Regulations for the M. E. S.).

(b) For Indian Troops.

Authorised on the following scales:—

(i) For each Indian Cavalry Regt. or Indian Infantry Bn., Indian Pioneers-Active Bn. and Hazara Pioneers.

One Regimental Ration Store. Floor area $\frac{3}{4}$ s. ft. per man on the establishment, with verandah in front 10' wide in plains stations and 8' wide in semi-hill and hill stations.

One separate store for each Squadron or Company (including H. Q. Squadron or Company). Floor area 1 s. ft. per man on the establishment with verandah in front 10' wide in plains stations and 8' wide in semi-hill and hill stations.

NOTE.—The Squadron or Company Ration Store will usually be built as a part of the Cooking sheds Block.

A Company Ration Store will not be provided for the Training Company of Hazara Pioneers.

(ii) For other Indian Units.

One Regimental Ration Store. Floor area 1 s. ft. per man on the establishment with verandah in front 10' wide in plains stations and 8' wide in semi-hill and hill stations.

(c) Fixtures, etc.

(i) Shelves and trestles of wood or reinforced concrete to be provided as required, as fixtures.

(ii) Floors to have a rat-proof projection which must be at least 3' clear above the verandah floor or the surrounding ground in every direction.

In cases where a Ration Store is attached to another building it must be separated from the building by a rat-proof partition which should extend through the roof.

(iii) A "D" shaped handle to be provided on the wall on either side of the door way, to assist a person entering the store.

(iv) Windows to be fly-proofed.

(v) Doors to be double. Outer door battened, inner door wire gauze.

37. Laundry Clothing Store Rooms.

These are authorised for British Units and British ranks of Indian Signal Corps on the following scales:—

Strength of Unit in Rank and File (Sergeants and under).	Dirty Clothing Room.		Making up Room.
	Plains.	Semi-hill and hill.	
	S. ft.	S. ft.	S. ft.
50 to 300	234	195	260
301 to 600	260	220	260
Over 600	325	280	390

NOTE.—No fixtures are authorised as the racks and tables required are movable and are supplied as furniture.

38. Magazines and Explosive Stores.

All explosives, fireworks, etc., will be stored in "Magazines" or "explosive stores" which will be constructed in accordance with the rules contained in Magazine Regulations, 1922 (English publication) and in the Indian Supplement thereto.

The following Stores and Magazines are authorised:—

(a) S. A. A. Stores.

The S. A. A. of all units in a station will usually be stored in a central S. A. A. Store which will be divided into separate compartments for the S. A. A. of each unit. In such cases a small expense store to hold 60 boxes of S. A. A. will be constructed in the lines of each unit.

Where there is no central S. A. A. Store a separate store will be constructed in the lines of each unit. The floor space allowed for each unit in a S. A. A. Store will be calculated by allowing $\frac{1}{4}$ s. ft. per rifle on the establishment of the unit with a minimum size of 80 s. ft. For the purpose of this calculation of floor space any automatic weapon (Vickers or Lewis gun, etc.) will count as six rifles.

A space of 24 s. ft. should be partitioned off in the S. A. A. Stores of Cavalry Regts., Infantry Bns. (including Pioneer and Training Bns.), and S. & M. (except H. Q. of Corps and Depôts) and the Reserve Centre, for the storage of grenades and grenade cartridges.

(b) Shell stores.

Shell stores are authorised for Artillery Units. Where two or more such units are located in the same station their shell stores may be

(b)—contd.

grouped together, each unit being provided with a separate compartment.

No scales are laid down for shell stores, but the accommodation provided should be the minimum required to store the gun ammunition which the unit concerned is authorised to hold. When calculating the minimum floor space, due regard must be paid to the rules laid down in Magazine Regulations, 1922, as regards the method of stacking gun ammunition.

(c) Fireworks Stores.

A building 8' x 6' for the storage of illuminating and signal cartridges is authorised for the following units:—

Cavalry Regts.

Bde. H. Q. and Batteries R. A.

Armoured Car Companies.

S. & M. H. Q. and Units.

Infantry Bns. (excluding Training Bns.).

Corps H. Q. Indian Pioneers, Active Bns. of Indian Pioneers (when detached) and Hazara Pioneers.

(d) Magazines or Explosive Stores for Explosives.

These are authorised for the following units and will be provided only at stations where explosives cannot be stored in an arsenal:—

British Cavalry Regt.

S. & M. H. Q. and Units.

Corps H. Q. of Indian Pioneers.

Active Bn. of Indian Pioneers.

Hazara Pioneers.

No scales are laid down, but the accommodation provided should be the minimum required to store the explosives which the unit concerned is authorised to hold on charge.

39. Armouries.**(a) Armouries are provided for Indian Troops, or for the Indian Ranks of British Units, on the following scales:—**

2 s. ft. per rifle.

8 s. ft. per Vickers or Lewis gun.

NOTE 1.—One compartment will be allowed per squadron, company, or unit of equivalent strength. Two doors are provided for each compartment to act as entrance and exit, and the minimum size of a compartment will be 100 s. ft.

(a)—contd.

NOTE 2.—In the case of Indian Ranks of British Units, where the numbers are small, the armoury (on the above scales) will usually be provided either by adding a lean-to room to an existing building where it would be in view of a sentry or by enclosing a portion of a verandah.

(b) The following fixtures are provided in Armouries:—

- (i) Arm Racks for the number of rifles to be accommodated.
- (ii) Shelf all round, for machine gun belt boxes, drums, revolvers, bombing appliances, etc.
- (iii) An ammunition box properly fixed to the floor for each squadron, company, or unit of equivalent strength (this fixture may be provided either in the Armoury or in the S. A. A. Store—see para. 38).

(c) Rifles of Reservists.

Accommodation in separate armoury compartments, as below, is authorised for storing the rifles of reservists:—

- (i) For Indian Cavalry at Cavalry Group Centres. On a scale of 4 s. ft. per rifle.

A combined rifle, sword, and lance, rack will be provided as a fixture and also a shelf all round for miscellaneous articles.

(ii) For

Each Indian Infantry Training Bn.

Pioneer Training Companies at Corps H. Q. or at Bn. H. Q. in the case of Hazara Pioneers.

Each S. and M. Unit at Corps H. Q.

Indian Signal Corps at Signal Training Centre and Dépôt.

On the scales laid down in sub-para. (a) above. Arm Racks for the number of rifles to be accommodated will be provided as fixtures and also a shelf all round for miscellaneous articles.

(d) Armouries on the scales laid down in sub-paras. (a) and (b) above are provided for the following units of the Auxiliary Force (India):—

Regt. of Cavalry.

Bde. of Artillery.

Bn. of Infantry.

Detached Squadron, Battery, or Company.

A workshop, 100 s. ft. with fitters bench, will be provided in addition as part of the armoury of a Regt. of Cavalry, a Bde. of Artillery, or a Bn. of Infantry of the Auxiliary Force (India).

40. Armourers' Shops.

- (a) Armourers' Shops for both British and Indian Troops are authorised on the following scales:—

Number of rifles in Unit [any automatic weapon (Vickers or Lewis gun) to be counted as 6 rifles].	Work Room.	Forge Room.	Drying Room (in verandah).	Water and Wood Store (in verandah).
	S. ft.	S. ft.	S. ft.	S. ft.
Up to 100	Nil	Nil	Nil	Nil
100 to 250	200	80	60	60
251 to 400	360	142	60	60
401 to 700	540	228	100	100
Over 700	720	228	100	100

Verandahs will be provided along one side of clear width 8' in plains stations and 6' in semi-hill and hills.

Verandahs may also be provided at one or both ends as necessary for the provision of the Drying Room and Water and Wood Store.

- (b) Fixtures are provided on the following scale:—

(i) Work Room.

Arm Racks as required.

Work Bench 32" high and 3' wide with fittings to hold vices; length as required.

Rack for files and tools 18" above work bench.

Shelf for tools 18" above Rack.

Horses on which to rest rifle barrels under repair.

Separate bench for lathe.

Shelf cupboard built into the wall for spare tools and chemicals.

(ii) Forge Room.

See Note 2 below.

(iii) Drying Room.

Barrel racks as required.

NOTE 1.—If possible the flue from the boiler in the Forge Room should be taken through the Drying Room in order to avoid the necessity for the provision of a separate stove in this room.

(b)--contd.

NOTE 2.—The following articles are supplied by the I. A. O. C. and are set up as fixtures by the M. E. S. who will also supply any additional piping, etc., required to connect up the boiler:—

Forge	} In Forge Room.
Trough or Boiler for "browning" rifle barrels with the necessary flanged pipe or socket attached and taps	
Bellows	
Vices	
Anvil	} In Work Room.
Groundstone and trough	

41. Trades Workshops.



(a) General scales of Workshops and Stores authorised.

The following areas per artificer on the peace establishment of the unit (other than artificers for whom accommodation has been provided elsewhere in this Synopsis, *e.g.*, Armourers, Farriers, Artificers of Units with Mobile Workshops, etc.) are authorised:—

	S. ft.
British Artificers—	
Plains	80
Semi-hill and hill	60
Indian Artificers—	
Plains	60
Semi-hill and hill	50

The minimum size of any Workshop will be 100 s. ft. in Plains and 80 s. ft. in semi-hill and hill. The accommodation thus allowed may be divided up into workshops (*e.g.*, Saddlers Shops, Carpenters Shops, etc.) and stores connected with these workshops, in such a way as to suit the organization of the unit concerned.

NOTE 1.—These scales do not affect S. and M. and Pioneer Units for whom special scales are given below.

NOTE 2.—Certain followers who are working at a trade, *e.g.*, Tailors and Shoemakers of Indian Units, Saddlers of British Cavalry Regiments, will be provided with accommodation on the above scale.

NOTE 3.—In the case of Indian Signal Corps the number of artificers for whom the above accommodation is to be provided will be decided in each case by A. H. Q.

Similarly in other cases where there is any doubt as regards the number of artificers for whom accommodation is required the prior concurrence of A. H. Q. should be obtained.

(b) S. and M. Units.

- (i) At H. Q. of Corps, trades workshops and stores are provided as required, G. of I. sanction being obtained in each case.
- (ii) The following accommodation is authorized for each field unit which is away from Corps H. Q.:—

Detail.	Field and Army Troops Coy.	Field Troop and Divisional H. Q. Coy.
	S. ft.	S. ft.
Workshop Office, draftsmen and store	400	400
Carpenters' shop and store	800	400
Saddlers and painters' shop	400	400
Blacksmiths' shop and store	300	400
Fitter and Engine driver shop	400	..
Work shed for bricklayers and masons (with back closed in)	500	100
Tailors' shop	100	..

(c) Pioneer Units.

Accommodation authorised.	Corps H. Q.	Active Bn. away from Corps H. Q.	Hazara Pioneers.
	S. ft.	S. ft.	S. ft.
Room for N. C. O. in charge	120	120	120
Carpenters' shop and store	1,000	500	500
Blacksmiths' shop and store	400	288	288
Tailors' shop	288	288	288
Shoemakers' shop	288	288	288
Work shed (x)	2,500	2,500	2,500
Store room	216	216	216

(x) The back of the shed to be closed in and a courtyard wall with a 12' gate to be erected in front of the workshop as a whole enclosing a space 113' x 20' (or 2,260 s. ft.). The courtyard wall to be 6' high and the top covered with broken glass or similar preventive against theft.

(d) Verandahs.

Verandahs will be provided for blocks of Trades Workshops as under:—

In plains stations

10' clear width all round when occupied by British personnel,
8' clear width back and front when occupied by Indian personnel.

8' clear width back and front.

8' clear width front only.

In semi-hill stations

In hill stations

c) Urinals.

If no latrines or urinals are near, one urinal compartment may be provided for a block of Trades Workshops.

f) Fixtures.

The following fixtures will be provided in tailors' shops.

Shelving as required.

Hooks or pegs as required.

42. Voluntary Workshops—British Troops.

The following accommodation is authorised for a British Cavalry Regt. and for a British Infantry Bn.:—

Accommodation authorised.	Plains.	Semi-hill.	Hill.
	(i) S. ft.	(ii) S. ft.	(iii) S. ft.
Carpenters' shop	1,100	920	740
Store (in verandah)	402	400	308
Painters' shop	484	402	320
Tinsmiths' shop	308	254	200
Shoemakers' shop	484	402	320
Book-binders' shop	144	128	111
Watchmakers' shop	144	128	111
Printers' shop	550	455	360

The above workshops will be built in blocks and, if convenient, they may be combined with the block of Trades Workshops.

Verandahs and Urinals are authorised on the same scales as laid down for Trades Workshops [see para. 41, sub-paras. (d) and (e)].

Detachments from a British Infantry Bn. of not less than one Company may be provided with accommodation as above of areas proportionate to the strength of the detachment.

43. Stables, Sheds, Standings, and Water Troughs.

(a) Officers' Chargers.

Stables are provided as subsidiary buildings of quarters (see para. 2).

(b) Regimental Stables

These are authorised in accordance with the scales given below:—

(i) For whom constructed.

For all horses or ponies on the establishment of a unit.

For mules on the establishment of all units other than Animal Transport units, in plains stations only.

For mules on the establishment of all units (including Animal Transport Units) at the following stations:—

Bakloh. Dharamsala. Dagshai. Gharial. Kuldana.
Upper Topa. Lansdowne. Almora. Chakrata. Kailana.
Dehra Dun. Lebong. Jalapahar. Maymyo.

(ii) Dimensions.

Horses 14' \times 7½' per stall.

Ponies or Mules 12' \times 7' per stall.

Passages 4' wide.

Partition Walls 6½' high.

NOTE.—Stalls will be arranged in two rows facing each other, with a 4' wide passage between.

(iii) Fixtures.

A manger connected with a continuous low wall about 2' high will be provided for each stall, clear of the stall itself.

2 iron picketting pegs per stall with rings in their heads, firmly fixed, the outer one set in 2' towards the centre of the stable.

1 saddle rack and 1 harness peg per stall.

NOTE.—For the purpose of outside picketting, two iron picketting pegs with iron rings in their heads, firmly fixed in the ground, will also be provided outside the stables for each horse.

(iv) General.

Stables will be constructed in blocks and will be sited at least 150 ft. away from men's barracks and quarters. They should be light structures with masonry or iron pillars; the latter when used should be sheathed to a height of 5'—6" above floor level.

Urinals will be provided [as in paras. 12 (c) and 25 (c)] for each block of stables on a scale of 2 per cent. of stalls.

(c) Outdoor Standings.

- (i) Standings are only authorised for animals which are on the establishment of units but which are not provided with stables under sub-para. (b) above.

- (c) (ii) The area allowed per animal (excluding area required for mangers) will be:—

Mules	. . . . .	10' x 7'
Bullocks	. . . . .	10' x 7'
Camels	. . . . .	13' x 8'

- (iii) For mules of British Infantry, Indian Infantry (including Gurkhas, Pioneers, and Training Bns.), and S. & M., zinc mangers in cement concrete base are authorised on a scale of 1 per mule. For other mules or for bullocks brick mangers are authorised.

For camels brick or concrete mangers are authorised.

Mangers should be arranged in two rows 6' to 8' apart; no specific dimensions are laid down for mules or bullocks, but mangers for camels should be sunk 6" in the ground and should be circular, 2' in diameter, with a wall 6" high round them.

- (iv) In plains stations trees should be planted to provide overhead cover for animals.

The cost of planting and maintaining the trees will be borne by the Military Estates Officer in the case of land under his management, otherwise by the M.E.S.

(d) Water Troughs.

Are authorised on a scale of 50' of trough per 140 horses on the establishment of the unit.

Water troughs will have an average internal width of 2'—4½" and a depth of 1'—3"; they will have pucca platforms 10' wide round them and the top of the trough will be 2'—9" above the pucca platform. Water troughs will generally be built near wells unless a piped water supply is available.

44. Harness Rooms.

Accommodation for the Harness of Units is authorised as below:—

(a) Harness Rooms.

10 s. ft. per horse (excluding officers chargers).

The accommodation authorised may be divided up into compartments to suit the organization of the Unit concerned.

6. Grain Storage

For grain storage in the United States

For grain storage in the United States

For grain storage in the United States

7. Grain Storage

For grain storage in the United States

8. Grain Storage

(a) Grain Storage

For grain storage in the United States

(b) Grain Storage

For grain storage in the United States

(c) Grain Storage

For grain storage in the United States

45. Grain, Hay, and Equestrian Storage

(a) For British Troops

Not authorized.

(b) For Indian Troops

The following are authorized —

(i) Grain Storage

Flour area— $1\frac{1}{2}$ s. ft. per horse

$1\frac{1}{2}$ s. ft. per bullock or mule

$\frac{1}{2}$ s. ft. per mule

Minimum floor for 100 s. ft.

(b) (ii) Hay and Bhoosa Stores.

Floor area— $4\frac{1}{2}$ s. ft. per horse.

3 s. ft. per bullock or camel.

1 s. ft. per mule.

Minimum size to be 100 s. ft.

NOTE 1.—Grain Stores and Hay and Bhoosa Stores are usually built in a single block. The area authorised as above may, however, be split up into separate blocks or compartments to suit the organization of the Unit concerned.

NOTE 2.—No fixtures are authorised.

46. Maneges.

(a) The following Units are entitled to maneges:—

British Cavalry Regts.

R. H. A. and R. F. A. horsed batteries and Ammunition Columns.

Field Troop S. & M.

Signal Units.

The authorised scale will be 1 manege for every 350 or part of 350 horses on the establishment of the unit.

A manege will not be provided for a unit with less than 50 horses.

When possible small units in a station, *e.g.*, batteries, Signal Units, etc., will be grouped together and only one manege provided for two or more units.

(b) Maneges are normally constructed of the following dimensions:—

Rectangular 180' × 60'.

Circular 120' diameter.

When a unit is entitled to two maneges one will be rectangular and the other circular.

Similarly when a group of two or more units in a station are collectively entitled to more than one manege, one circular manege will be given and the rest will be rectangular.

“Markers” as required will be provided as fixtures.

(c) Auxiliary Force (India) may be provided with maneges on the above scales where considered necessary, but the sanction of A. H. Q. must be obtained in each case.

47. Forges and Shoeing Sheds.

The accommodation authorised for Forges and Shoeing Sheds is given in sub-paras. (a) to (d) below:—

(a) Forge Room.

$1\frac{3}{4}$ s. ft. per horse or mule. Minimum size 120 s. ft.

Floor will be of hard brick, stone slabs, or concrete. Bounets and flues for the forges will be provided as fixtures.

(b) Store Room.

$\frac{1}{2}$ s. ft. per horse or mule. Minimum size 50 s. ft. Maximum size 170 s. ft.

Shelving as required will be provided as a fixture.

(c) Shoeing Sheds.

$2\frac{1}{2}$ s. ft. per horse or mule. Minimum size 10' × 15' (or 150 s. ft.)

The authorised space will be provided either in a separate open shed or by making a portion of the verandah round the Forge and Store Rooms of a clear width of 15', whichever is the more economical.

Floor will usually consist of wood blocks, set grain on end and saturated with tar.

Tethering rings as required will be provided as fixtures.

(d) Verandahs.

Except where verandahs are used as Shoeing Sheds (see sub-para. (c) above) the Forge and Store Rooms will be provided with verandahs as under:—

In plains stations—10' clear width all round when occupied by British personnel.

8' clear width back and front when occupied by Indian personnel.

In semi-hill stations—8' clear width back and front.

In hill stations—8' clear width front only.

(e) General.

Certain articles are supplied by the I. A. O. C. in accordance with Equipment Regulations; when necessary these will be set up as fixtures by the M. E. S.

Where units have a small number of horses or mules it will be advantageous to combine if possible the accommodation authorised for two or more units.

48. Vehicle Sheds.

Vehicle.	Area per vehicle authorised.	Remarks.
Cable Wagons and Telephone Wagons .	32' x 10'	(a) Allow 1 cart per Regiment or Detachment.
Bread and Meat Carts (a)	20' x 9'	(b) To be provided in bays for vehicles on the establishment of the Unit concerned.
Other vehicles (except A. T. Carts) for which sheds are unauthorised, and except vehicles accommodated in gun sheds (see paragraph 49).	20' x 9' (b)	

49. Gun Sheds.

(a) General.

Gun Sheds are authorised for all guns and ammunition wagons on the peace establishment of a R. A. Unit.

They will be constructed in blocks, each block containing a number of bays of the dimensions given in sub-paras. (b) and (c) below.

(b) R. H. A. Field, Medium, and Heavy, Artillery Gun Shed Bays:—

(i) Each bay will be 50' x 10' and will accommodate 2 vehicles.

One additional bay per battery or R. H. A. Ammunition Column and two additional bays per Divisional Ammunition Column will be partitioned off as a Store Room.

NOTE.—A "vehicle" will comprise a gun with limber or a complete ammunition wagon.

(ii) The following fixtures will be provided per sub-section for hanging up the gun equipment:—

A Board 8' x 6' made of $\frac{3}{4}$ " planking firmly fixed to the Gun Shed Wall. Nails or screws on which the equipment will be hung will be provided and fixed to the board by the Unit.

(c) Light and Mountain Artillery Gun Shed Bays:—

(i) Each Bay will be 24' x 12' and will accommodate one gun.

A verandah 10' wide will be provided in front of the bays.

- Racks for side arms, entrenching tools, etc., fixed to the Gun Shed Walls.

Two shelves 6' x 2' either fixed firmly to the Gun Shed Wall or supported on a wooden frame work for the ammunition boxes to rest on.

The scales given below are, except as otherwise stated, applicable to all Units and Services whose establishments include motor vehicles. They do not apply to the following M. T. Units, for whom special scales of technical accommodation are decided upon as and when required:—

Central M. T. Stores Depôt.

M. T. Depôt.

Heavy Repair Shops Class I and Class II.

As regards Armoured Car Coys., see sub-para. 4. 52 -

Garages and Washing Platforms for the vehicle units. The requirements of these units will, however, be provided in the design used in sub-para. (a) clauses (iii), (iv), (v) and (vi) and in sub-para. (b) below.

(a) Garages.

(i) Types of Garage Bays.

A "Standard Bay" measure (10 ft. per vehicle) and wheeled motor vehicles of the other. Standard of three bays with between each such or partition on be increased by

Where vehicles are used for the purpose of the length of a trip, the length of a trip is the distance between the origin and the destination.

A "Worker" accommo-

NOTE: _____

(a) (ii) Scales authorised for Units with Mobile Workshops.

The percentage of the establishment of 4 wheeled and 6 wheeled motor vehicles and 4 wheeled trailers accommodated in

	Per cent.
Standard Bays	is . 92
Workshops Bays	„ 15
Workshops Bays for use as Painters' Shops	„ 3
TOTAL	110

NOTE 1.—The above provides for 10 per cent. of spare accommodation which is required for vehicles attached to the Unit for maintenance.

NOTE 2.—Each Unit will have a minimum of two "Workshop Bays for use as Painters' Shops", but the total number of Workshop Bays (including Painters' Shops) must not exceed 18 per cent. of the establishment of 4 wheeled and 6 wheeled motor vehicles and 4 wheeled trailers.

NOTE 3.—A "Workshop Bay for use as a Painters' Shop" will be exactly the same as an ordinary Workshop Bay except that it must be dust-proof, it must have a ceiling to prevent the fall of dirt caused by birds, etc., and that it must always be provided with an inspection pit [see clause (vii) below].

(iii) Scales authorised for Units other than those with Mobile Workshops:—

All 4 wheeled and 6 wheeled motor vehicles and 4 wheeled trailers on the establishment will be accommodated in Standard Bays.

(iv) Accommodation authorised for motor cycles and 2 wheeled trailers.

Accommodation is authorised for all Units which have motor cycles, etc., on their establishments, on the following scales:—

	S. ft.
Per motor cycle, Solo	25
Per motor cycle, Combination	50
Per 2 wheeled Trailer	100

The above accommodation will usually be provided as a part of the block of Standard Garage Bays; but where the Unit has a small number of motor cycles only these may be accommodated in a lean-to against an existing building or by enclosing a portion of an existing verandah [see sub-para. (f) below].

(v) General Notes.

Garages will be built in blocks arranged so as to suit the organization of the Unit. The Block of Workshop Bays should be

a) (v)—contd.

adjacent to the Shops Block and to the Office and Store Rooms Block (see sub-para. (c) (i) Note 2 and sub-para. (d) (i) Note 2).

The possibility of future extensions should always be borne in mind.

Where considered necessary by the G. O. C. District a space 50' wide will be metalled in front of garages.

Partition walls between bays will not be provided except where necessary for technical constructional reasons, or to divide off different units, or for Workshop Bays for use as Painters' Shops [see clause (ii) above], or for garages containing petrol lorries or trailers [see clause (viii) below].

One door, 10' wide \times 12' high in the clear, will be provided for each garage bay; it will usually be constructed of 22 gauge corrugated iron on a mild steel frame. Automatic Stops will be provided to retain doors in an open position.

Floors will slope outwards at about 1 in 120 so that vehicles can be easily handled in case of fire. Floors of Workshop Bays will always be of cement concrete; floors of Standard Bays may be of macadam or other suitable material, but care must be taken that no material, (*e.g.*, tar) is used in the floor which is acted upon by the oils used for motor vehicles.

Roofs and ceilings should afford the same degree of protection from the sun as those of the buildings in which the personnel are housed.

(vi) Fixtures:—

Fixtures are authorised as under.

For Standard Bays.

A locker, 3' \times 3' \times 1'—6" with two loose adjustable shelves, for each vehicle which can be accommodated.

For Workshop Bays.

A locker per bay, as for Standard Bays.

One fitter's bench (14' \times 2½' \times 3' high) per bay with two drawers in front (one drawer at each end of the bench).

An over head girder, 10' in from the doors, running the full length of the block of Workshop Bays. This girder will carry travellers, with a hook to which a tackle may be attached, as under:—

1 Traveller per "Workshop Bay for use as Painter's Shop".

1 Traveller, in each block of ordinary Workshop Bays, per 20 or part of 20 bays (with a minimum of 2 travellers in any such block).

(a) (vi)—contd.

The hook on the traveller must be 15' clear above the floor and must be capable of taking a safe load of 2 tons (see also Note below).

The Tackle is not a M. E. S. fixture.

NOTE.—In the case of Armoured Car Units a proportion of the Workshop Bays may be provided with overhead girders and travellers capable of lifting Armoured Car bodies.

(vii) Inspection Pits:—

Inspection Pits in Standard and Workshop Garages will be $23' \times 3' \times 4\frac{1}{2}'$ deep: a $1\frac{1}{2}' \times 1\frac{1}{2}'$ iron will be fixed along each long side so as to form a rebate into which will fit the $1\frac{1}{2}''$ planks which cover the pit when not in use.

Steps leading down into inspection pits will not be provided.

The provision of Inspection Pits is authorised as below:—

Standard Garages—one per 6 vehicles or part of 6 vehicles which can be accommodated in the Garage.

Workshop Garage Bays for use as Painters' Shops—one per bay.

Other Workshop Garage Bays—one per 6 bays or part of 6 bays with a minimum of two.

(viii) Fire Precautions:—

Garages containing petrol lorries and petrol trailers will be kept entirely separate from all other buildings.

The vehicles will be accommodated in a single row [see clause (i) above]; they will have a door at each end of each bay, and a fire-proof protection extending through the roof between each bay.

Accommodation for extinguishers, or other authorised fire appliances, will be provided in separate covered stands detached from all garages.

(b) Washing Platforms.

Number of motor vehicles
excluding motor cycles
solo and combination.

Washing
Platforms
authorised.

Less than 3	Nil.
3 to 12	One, $30' \times 30'$
13 to 40	One, $50' \times 30'$
Over 40	One, $(50' \times 30')$ for every 40 or part of 40 vehicles.

Washing Platforms will be paved or of cement concrete. Each platform will be provided with water supply (2 taps) and drains.

(c) Technical Shops.

Authorised for all Units with Mobile Workshops, as below.—

(i) Scales authorised:—

Description of Shop.	Minimum standard size:—		Add per additional artificer.
	Dimensions.	For any number of artificers up to:—	
	s. ft.		s. ft.
Vulcanists'	260	6	40
Electricians'	200	2	60
Carpenters' or Wheelers'	400	2	100
Blacksmiths'	600	2	100
Upholsterers'	200	2	80
Tin and Copper Smiths'	200	2	40

NOTE 1.—Any Unit not having artificers of the trades mentioned above will not be provided with the particular shop in question.

NOTE 2.—All the shops given in the above table will, as far as possible, be built in one block [see sub-para. (f) below]. This "Shops Block" will either form a part of the Workshop Garage or will be connected to it by a covered passage of 8' clear width.
Allowance should be made for the possibility of future expansion.

NOTE 3.—Where an Acetylene Welder is authorised he will be accommodated in the Blacksmiths' Shop, a suitable portion of which will be divided off by a partition and provided with a separate door.

NOTE 4.—A verandah, 8' clear width, will be provided along the front of the "Shops Block".

NOTE 5.—The following categories of artificers are not included in the number of Artificers shewn in the Table above, and no shop accommodation will be provided for them:—

Fitters, Turners, Hammermen, and Bellows Boys.

NOTE 6.—Detachments with a Mobile Workshop, who are located at a station other than the station of the Headquarters of the Unit, will be provided with Technical Shops on the above scales.

(ii) Fixtures authorised:—

No scale of fixtures is laid down but the provision is authorised of such fixtures as are essential for the efficient working of each shop.

(iii) General Notes:—

The width of the doors in Carpenters' and Blacksmiths' Shops will be not less than 10' with a height of 12' to enable a lorry being driven into the shop.

The partition between Blacksmiths', Vulcanists', or Tin and Copper Smiths', Shops and other shops will be fire-proof and

(c) (iii)—contd.

will extend through the roof; other partitions between shops or between the Tool Store and the Technical Equipment Store may be of light construction, (*e.g.*, Expanded Metal).

The partition between a store and a shop must be of solid construction.

(d) Store Rooms.

Authorised for all Units with Mobile Workshops, as below:—

(i) Scales authorised:—

Description of Store.	Minimum standard size authorised for up to 40 vehicles. s. ft.	Add for every additional 11—40 vehicles. s. ft.
Tyre	150	50
Technical Equipment	500	50
Tool	100	20
Unserviceable	100	20
Mobilization	150	50

NOTE 1.—In the above table a “vehicle” includes all 4 wheeled and 6 wheeled motor vehicles and 4 wheeled trailers. It does not include motor cycles or 2 wheeled trailers.

NOTE 2.—The Store Rooms should be built in a block in which the Workshop Office [see sub-para. (c) below] may be included. This “Store Rooms Block” should be adjacent to the Workshop Bays [see sub-para. (a) (v) and sub-para. (f)].

Each Store should be self-contained and capable of being locked.

Allowance should be made for the possibility of future expansion.

NOTE 3.—A verandah will be provided along the front of the “Store Rooms and Workshop Office Block” of clear width 8’ in plains, 7’ in semi-hill, and 6’ in hill, stations.

This verandah will extend all round the Workshop Office if the latter is included in the Store Rooms Block [see sub-para. (e) below].

NOTE 4.—Detachments with a Mobile Workshop, who are located at a station other than the station of the Headquarters of the Unit, will be provided with Store Rooms on the above scales.

(ii) Fixtures, etc., authorised:—

The Tyre Store will be provided with three-tier racks designed to take the sizes of tyre used by the Unit. Tyre Stores should be well ventilated and dust-proof; they should be kept as dark as possible for which reason windows are usually made of small size and glass coloured blue.

The Technical Equipment Store, Tool Store, and Mobilization Store will be provided with bins (classed as fixtures) which will

(d) (ii)—contd.

be of suitable design for the articles which have to be stored in each case.

The Tool Store will also be provided with a hatch opening into the workshop for the issue of tools.

The Unserviceable Store will be provided with shelving as required.

(e) Offices.

A Workshop Office will be provided for every Unit with a Mobile Workshop on the scales given in para. 29.

This office will, if possible, be included in the Store Rooms Block [see sub-para. (d) (i) Note 2].

(f) Armoured Car Coys.

The scales laid down in sub-paras. (a) to (c) above will be adopted subject to the following modifications in the case of Armoured Car Coys.

(i) All Armoured Cars will be accommodated in single bays and will be provided with a minimum of one inspection pit per section [see sub-para. (a) (vii) above].

(ii) The following accommodation will be provided in prolongation of the workshop block:—

Workshop Office—3 Units—See sub-para. (c) above.

Expendable Store—8' × 16' or 128 s. ft.

Tool Store—8' × 16' or 128 s. ft.

Electrician's shop—See sub-para. (c) above.

(iii) The following store room accommodation [see sub-para. (d) above] will be provided:—

Tyre Store—20' × 10' or 200 s. ft.

Gun Store (one for each section)—12' × 10' or 120 s. ft.

Car Equipment Store (one for each section)—15' × 10' or 150 s. ft.

Unserviceable Store—20' × 10' or 200 s. ft.

The above accommodation as well as accommodation for motor cycles [see sub-para. (a) (iv) above] will be provided in a lean-to at the back of the armoured car bays.

As regards Technical Equipment Store and Tool Store see clauses (ii) and (v) respectively.

NOTE.—No mobilization store will be provided.

- (f) (iv) The guard room and guard detention room [see para. 30 (a) (i)] will be constructed, in prolongation of the armoured car bays, of the following sizes:—

Guard room—342 s. ft.

Guard Detention Room—12' × 12' or 144 s. ft.

The verandah in this case will be 8' wide and will be provided back and front.

- (v) A Technical Equipment Store 21' × 27' or 567 s. ft. containing a small office will be provided in prolongation of the guard room with verandah 8' wide, front and back.

51. Petrol Store Rooms.

- (a) The rules for storing and stacking petrol in tins or drums and suitable specifications for a building to be used for the storage of petrol are contained in S. & T. Regulations.

- (b) Scales authorised.

The provision of Petrol Store Rooms is authorised on a scale of 4 s. ft. per 4 or 6 wheeled motor vehicle up to 100 vehicles and 2 s. ft. per vehicle above this number and 2 s. ft. per motor cycle on the establishment of the Unit, subject to a minimum size of 100 s. ft. for any Petrol Store.

For the purpose of providing petrol storage accommodation Units with a small establishment of motor vehicles should, as far as possible, be grouped together and a single store provided on the above scale.

- (c) Petrol Bulk Storage.

May only be adopted with the sanction of the G. of I. Large mild steel cylinders are usually employed for this purpose of sizes normally not exceeding 15,000 gallons.

These cylinders are sunk under ground or covered up with earth as a precaution against fire.

Arrangements must be made for:—

- (i) Easy filling of the cylinders.
- (ii) Periodical cleaning of the cylinder.
- (iii) Filtration of the petrol including removal of water from the cylinders.
- (iv) Pumping into vehicles or receptacles as required for consumption.
- (v) Measurement of issues either by passing the petrol through a graduated receptacle or by pumping through a petrol gauge.

52. Drill Halls and Drill Sheds.

(a) Drill Halls.

Authorised for the under-mentioned Units of the Auxiliary Force (India) on a scale of 6 s. ft. per man of the Units establishment resident in the station.

Regt. of Cavalry.

Bde. of Artillery.

Bn. of Infantry.

A bar, store room, and lavatories, of suitable size may be attached.

(b) Drill Sheds.

Unit.	Accommodation authorised. Open Shed. S. ft.
Indian Infantry—Training Bn.	120' × 30'
Indian Pioneers Corps H. Q.	120' × 30'
Hazara Pioneers	120' × 30'
H. Q. and Depots of Corps of S. & M.	100' × 25'

53. Special accommodation—Indian Units.

(a) Indian Officers Club.

(i) These clubs are authorised for the Indian Units mentioned below:—

Cavalry Regt.

H. Q. of S. & M. Corps.

Infantry Bns.

Indian Pioneers—Corps H. Q.

Indian Pioneers—Active Bn. (when detached).

Hazara Pioneers.

(ii) The accommodation to be provided is:—

Two main rooms, each 300 s. ft.

Verandah all round, clear width 10' in plains, 8' in semi-hill, and 6' in hill, stations.

Service Room (in verandah) 100 s. ft.

Store Room (in verandah) 65 s. ft.

(a) (iii) The following fixtures are authorised:—

Each Main Room—

1 shelf cupboard built into the wall.

Shelving as required.

Hooks or pegs as required.

Sword Racks as required.

Service and Store Rooms—

Shelving as required.

(b) Durbar Shed.

An open shed with a pucca floor is authorised for the following Indian Units:—

	S. ft.
Cavalry Regt.	480
Infantry Bn. (Active)	600
Indian Pioneers Active Bn. at Corps H. Q.	600
Indian Pioneers Active Bn. (when detached)	600
Hazara Pioneers	600

(c) Medical Inspection Rooms.

Will only be provided in the lines of Indian Units which are so far from a hospital as to render them necessary.

The room will be 18' x 12'. It will be divided into two equal parts by a partition and will have a verandah 12' clear width all round.

54. Special accommodation—S. & M. Units.

(a) Technical Stores.

Unit.	Accommodation Authorised.		
	Engineer Equipment Store Room.	Field Works Store.	Spar Shed (Open shed).
	S. ft.	S. ft.	S. ft.
Corps H. Q. . . . .	...	Four closed Sheds, each 1,050	Two, each 9,000
Divisional H. Q. Coy.	600	400	800
Field Troop	each 800	800	1,000
Field Coy.			
Railway Coy.			
Army Troops Coy.			

(a)—contd.

Engineer Equipment Store Room and Field Works Store will be built in one Block which may, if convenient, be combined with some other block; a verandah will be provided in front of clear width 8' in plains stations and 6' in semi-hill and hill stations.

The following fixtures are authorised:—

Engineer Equipment Store Room—

1 shelf cupboard built into the wall.

Shelving as required.

Field Works Store—

Shelving as required

(b) Technical Schools.

The following is authorised at Corps H. Q.:—

	S. ft.
Lecture Room	1,200
Survey Class Room	1,200

A second survey class room of the same size is authorised for K. G. O. Bengal S. & M.

55. Special accommodation—Pioneer Units.

Technical Stores:

Unit.	Accommodation authorised.			
	Equip- ment Store.	Instruc- tional Store.	Miscel- laneous Store.	Spa- shed (open shed).
	S. ft.	S. ft.	S. ft.	S. ft.
Indian Pioneers Corps H. Q.	720	...	1,000
Indian Pioneers each Training Coy.	216	...
Indian Pioneers Active Bn. . . .	*	720	...	1,000
Hazara Pioneers Bn. H. Q. . . .	*	720	...	1,000
Hazara Pioneers each Training Coy.	216	...

A verandah will be provided in front of clear width 8' in plains stations and 6' in semi-hill and hill stations.

The following fixtures are authorised:—

Equipment Store—

1 shelf cupboard built into the wall.

Shelving as required.

Instructional Store }
Miscellaneous Store } Shelving as required.

* 400 s. ft. per Company.

56. Special accommodation—Indian Signal Corps.

(a) Technical Store.

A technical store 225 s. ft. is authorised for each section of a signal unit.

This accommodation will normally be built as a part of the Quarter-masters Stores Block.

Shelving will be provided as required.

(b) Technical Schools.

The following accommodation is authorised—

(i) Corps Signals.

4 Lecture Rooms, each 600 s. ft., intended for British Ranks, Indian Ranks, Wireless Training, and Fitters, M. T., etc.

1 Charging Room, 480 s. ft., and divided by a partition into two, one for Charging Set, and the other for Switch Board, Batteries, etc.

2 other rooms, each 220 s. ft., connected by a door for use as a Field Corps Office.

1 Telephone Exchange Room—220 s. ft.

2 other rooms, each 220 s. ft., for use as Traffic Scheme Offices.

Verandah 8' wide on three sides. A small portion of the verandah will be enclosed as a store for the Wireless Training Lecture Room.

(ii) Divisional and District Signals.

2 Lecture Rooms each 600 s. ft., for general use, one British and one Indian.

1 Lecture Room 220 s. ft. for Wireless Training.

1 Charging Room 220 s. ft.

2 other rooms, each 220 s. ft. for use as Traffic Scheme Offices.

1 Telephone Exchange Room—180 s. ft.

Verandah 8' wide on three sides. A small portion of the verandah will be enclosed as a store for the Wireless Training Lecture Room.

(iii) Cavalry Bde. Signal Troop.

2 Lecture Rooms, each 400 s. ft., for general use, one British and one Indian.

1 Lecture Room, 300 s. ft. for Wireless Training.

1 Charging Room 100 s. ft.

Verandah 10' wide on two sides. A small portion of the verandah will be enclosed as a store for the Wireless Training Lecture Room.

(b) (iv) Fixtures.

Each Lecture Room will be provided with a raised platform (movable) at one end.

Hooks or pegs will be fixed as required in verandahs outside the doors of all rooms.

57. Obstacle Courses.

Obstacle courses, fitted with fixed appliances as given below are authorised for each of the undermentioned units:—

Army Schools of Physical Training.

Army School of Education—Belgaum.

Command Central Gymnasia.

British Infantry Battalions.

Indian Infantry Battalions (Active and Training).

Indian Pioneer Battalions (Active and Training).

Gurkha Battalions.

Appliances:—

1. Straight Plank (Balance), consisting of wooden bar, $12' \times 6'' \times 4''$ supported on 3 posts. Height $1' - 6''$.
2. Clear Jump, consisting of wooden bar, $18' \times 6'' \times 4''$ supported on 4 posts. Height 2 ft.
3. Heaving Jump, consisting of wooden bar, $18' \times 6'' \times 4''$ supported on 4 posts. Height 5 ft.
4. Zig-zag Planks, consisting of wooden bar, zig-zagged in 6 ft. lengths, continuous on 4 posts. Height $1\frac{1}{2}$ ft. at one end rising to $3\frac{1}{2}$ ft.—4 Nos.
5. Brick Wall. Pacca masonry $18' \times 1\frac{7}{8}' \times 10'$.
6. Stride Jump ditch. An excavation with supporting walls to provide two trenches $18' \times 6' \times 3'$ with a 4 ft. solid barrier between.
7. Right hand vault, consisting of a wooden bar, $18' \times 6'' \times 4''$ supported on 4 posts. Height $3\frac{1}{2}$ ft.
8. Right hand vault consisting of a wooden bar $18' \times 6'' \times 4''$ supported on 4 posts. Height $3\frac{1}{2}$ ft.
9. Solid Ramp, length 15' width 18' level for 6 ft., then slope to ground level.
10. Balance Planks consisting of wooden bar $18' \times 6'' \times 4''$ supported on 3 posts. Height 2 ft.

71. Gymnasias and Fencing Schools.

- (a) Gymnasias are authorised for a station according to the strength of the garrison as below:—

Number of all ranks in the station.	Accommodation authorised.			
	Hall.	Dressing Rooms (in verandah).		Store Room (in verandah).
		Officers.	Men.	
	S. ft.	S. ft.	S. ft.	S. ft.
Under 450	1,900	192	408	192
450 to 999	2,888	192	408	192
1,000 to 2,000	3,200	240	555	270

NOTE 1.—A small latrine and urinal will be provided adjoining the men's dressing room and a similar one adjoining the officers dressing room on the other side.

NOTE 2.—For numbers over 2,000 two or more gymnasias, on the above scales, will be provided according to the strength of the garrison.

NOTE 3.—Dressing Rooms and Store Room will be verandah rooms at each end of the Hall. A verandah 10' wide will be provided in back and front.

(b) Fixtures and General Notes regarding Gymnasias.

- (i) The following fixtures are authorised:—

Dressing Rooms—

Hooks or pegs as required.

1 shelf.

Store Room—

1 shelf cupboard built into the wall.

Shelving as required.

- (ii) The floor of the Hall will be boarded throughout.

- (iii) All gymnastic apparatus is classed as furniture.

(c) Fencing School.

The authorised scale for a fencing school is 1,200 s. ft. with a boarded floor.

It is generally possible to use a gymnasium or a theatre as a fencing school so that a special room will seldom be required.

72. Dhobi Ghats.

- (a) Dhobi Ghats for troops in Cantonments may be provided by the Cantonment Authority and, if so, they should be sited outside the military area. Expenditure on such dhobi ghats will be borne by the Cantonment Fund.
- (b) When Dhobi Ghats are required exclusively for military personnel, they should, if practicable, be sited inside the military area. The cost of such Dhobi Ghats will be borne by the Military Estimates.

73. Bakeries.

(a) Scales.

Class of accommodation.	Strength of Garrison.					
	300 and less.	301 to 700.	701 to 1,000.	1,001 to 1,400.	1,401 to 1,499.	1,500 to 2,000.
(i) Bread Store . . .	196 s. ft.	256 s. ft.	324 s. ft.	360 s. ft.	400 s. ft.	400 s. ft.
(ii) Wheat or Flour Store (*).	196 s. ft.	256 s. ft.	360 s. ft.	450 s. ft.	600 s. ft.	600 s. ft.
(iii) Wheat cleaning Shed (†).	224 s. ft.	256 s. ft.	360 s. ft.	450 s. ft.	600 s. ft.	600 s. ft.
(iv) Soojee Store . . .			As required.			
(v) Ovens No. (open shed).	2	2	4	6	8	8
(vi) Covered passage . . .			As required.			
(vii) Kneading Room . . .	30' x 20'	34' x 20'	35½' x 20'	38½' x 20'	40' x 20'	40' x 20'
(ix) Yeast Room . . .	12' x 8'	12' x 8'	12' x 8'	12' x 8'	12' x 8'	12' x 8'
(x) Fuel Store, shed . . .	(‡)	(‡)	(‡)	(‡)	(‡)	240 s. ft.
(xi) Well	One	One	One	One	One	One
(xii) Office	180 s. ft.	240 s. ft.	300 s. ft.	360 s. ft.	360 s. ft.	360 s. ft.
(xiii) Bullock shed . . .	...	...	...	...	...	3,000 s. ft.
Enclosure (area) . . .	12,000 s. ft.	19,500 s. ft.	30,000 s. ft.	38,000 s. ft.	50,000 s. ft.	50,000 s. ft.

(*) Is intended for one month's consumption.

(†) Not required when flour is received from an outstation mill.

(‡) Is intended for half a month's supply. Size depends on amount to be stored and strength of Garrison.

(b) Fixtures and General Notes.

(i) Bread Store.

Windows should open inwards and be fitted with fine galvanized wire netting.

Bread Racks to consist of stone or ferro-concrete uprights with shelves of galvanized wire netting 2 feet wide and $1\frac{1}{2}$ feet above each other.

(ii) Wheat-cleaning Shed.

Open archways on one side.

(iii) Ovens.

To be arranged in pairs, with a furnace for each pair placed between them.

The flues connecting the ovens with the furnace should be as near the front as possible, and should have all corners rounded off.

The furnace should have an area of 4 feet by 3 feet, and its floor should be level with that of the oven and with the damper holes.

The furnace should not project beyond the front walls of the ovens, it should be provided with a damper and its doors should have automatic latches.

Both furnaces and ovens should be lined with fire-brick throughout.

Ovens should be 2 feet 9 inches high at the centre, and should each have two doors of one folding leaf of double thickness, with an automatic latch and central revolving shutter to regulate the draught.

Each oven should have a separate chimney flue, 12" \times 9" by 25 feet high, with a flue door at the back for the removal of ashes. The flues should be at the front corners of each oven on either side of the doors, and they should meet above the doors outside the oven.

Sliding dampers with bar handles or weighted dampers with chains should be provided.

Chimney flues can, if necessary, be detached from the walls of the building.

Of the arches supporting the ovens, those nearest the furnace should be somewhat smaller than the rest in order to allow for thicker abutments. Two to three feet of sand will be placed above the ovens to help to retain the heat.

Ashpits will be provided with doors.

(b) (iv) Camp Ovens.

Ordinary camp ovens inside a shed 20 feet wide, with closed sides, to keep cold air off from the bread before baking, have been quite successful.

(v) Bullock Sheds.

These should be simple structures of a semi-permanent nature.

74. Slaughter Houses and Cattle and Sheep Yards.

(a) Slaughter House.

A Slaughter House may be provided for a station as an authorised work on the scales given below:—

(i) Slaughter Stand.

A pucca platform 15' wide of length varying according to requirements. It should be raised a few inches above ground level and should slope into a shallow depression about 2' wide × 1' deep running down the centre and draining into a pucca tank outside the enclosure.

(ii) Gallows.

These consist of rolled steel uprights let into the ground near the slaughter stand at intervals of 6', and connected at 8' above the ground by a rolled steel joist to which are bolted hooks or pulleys from which the carcasses are hung. A pucca platform 12' wide will be constructed for the full length of the gallows. It should be raised a few inches above ground level and should slope into a shallow depression about 2' wide and 1' deep running down the centre and draining into a pucca tank outside the enclosure.

(iii) Meat Hanging Shed.

This will be built near the slaughter stand, in a corner of the enclosure, with a door in the outside wall for the issue of meat.

The width will be 16' and the length such as to accommodate the number of carcasses to be stored, allowing 3' for each bullock and 1' for each sheep. The shed will be well ventilated, open in front, with windows in the back wall.

The shed will also be provided with gallows and with a pucca floor and drain leading to the same pucca tank outside [see (ii) above].

(a) (iv) Cess pools and ofial pits.

The pucca tank mentioned above is intended merely as a temporary receptacle. Blood and ofial must be removed to a distance without delay.

(v) Well.

This will be provided when required.

(vi) Enclosure Wall.

An enclosure wall 8' high will be provided all round the Slaughter House, and the whole of the ground inside this wall will be metalled.

(vii) Throwing Grounds.

These will be provided immediately adjacent to Slaughter Stands within the enclosure of the Slaughter House. The length will be the same as that of the Slaughter Stand [see clause (i) above] and the width will be 8' with brick borders to retain the loose earth or sand which will be spread 1' deep over the entire surface.

(b) Cattle and Sheep Yards.

Are authorised in connection with a Slaughter House on the following scales:—

Building.	Dimensions.	Remarks.
Cattle Shed . . .	As required on a scale of 49 s. ft. per animal.	Eight bullocks or 20 sheep are sufficient for one day's supply for 1,000 British Troops.
Sheep Shed . . .	As required on a scale of 8 s. ft. per sheep	
Yard for cattle and sheep .	As required . . .	Walls 5' high to be provided all round.
Yard for fodder . . .	As required . . .	Walls 5' high to be provided all round.
Well with watering trough .	As required . . .	.....
General Enclosure . . .	As required . . .	Plenty of space should be allowed for the cattle to move about.

75. Dairies and Butter Factories.

No scales are laid down for Dairies and Butter Factories but these are authorised and may be provided as required.

76. Fire Engine Shed..

Will only be provided at stations where fire engines are authorised. They should be built near the Quarter Guard or Stables, and should be of the following size:—

For an engine worked by manual power—24' × 13' (or 312 s. ft.).

For a motor driven fire engine—30' × 13' (or 390 s. ft.).

The provision is authorised of shelves, pegs, iron brackets in the walls, etc., as required for hanging up the parts of the apparatus.

77. Barrack Department Store Rooms.

- (a) A general Barrack Dept. Store will usually be provided in a central position for each station; separate furniture store rooms are not therefore necessary except when the lines of Units are very scattered.
- (b) The buildings forming a general Barrack Dept. Store should be arranged to form an enclosure with an open space in the centre and only one entrance.

The accommodation may also include a chowkidar's hut 10' × 10' at the entrance gate and a small office for the Barrack Dept. Subordinate.

A verandah of clear width 8' in plains stations and 6' in semi-hill and hill stations will be provided along one side of the Store.

- (c) When detached store rooms are sanctioned [see sub-para. (a) above], they may be provided for British Units only on a scale of 2 s. ft. per man (all British ranks) on the establishment of the Unit.

78. Kerosine Oil Store Rooms.

Separate accommodation for the storage of kerosine oil is authorised at stations where the barracks are constructed of wood and where there are no I. A. S. C. or other suitable buildings in which it can be stored. Accommodation constructed for the storage of kerosine oil must follow the rules contained in S. & T. Regulations.

79. Recruiting Offices.

The provision of Recruiting Offices is authorised on the scales given below :—

(a) Office Block.

According to establishment on the scales laid down in para. 29.

(b) Medical Examination Room—300 s. ft.

1 shelved cupboard built into the wall will be provided as a fixture.

(c) Waiting Shed—Open shed 450 s. ft.

(d) Store—120 s. ft.

Shelving will be provided as required.

(e) Latrines and Urinals.

Will be provided as laid down in para. 25 on a scale of 8 per cent. of latrines and 4 per cent. of urinals, based on the probable maximum number of recruits present at any one time.

80. Artillery Ranges.

(a) Sites for Artillery Ranges are selected by the G. O. C. Dist.

(b) Artillery Ranges and their camping grounds will be maintained by the M. E. S.

Such maintenance includes works connected with roads, wells, bridges, etc., clearing and keeping down jungle, and the provision of temporary cook-houses and latrines. Also the provision of chowkidars for the protection of vacant lines, when it is impracticable to detail a small guard for their protection.

Compensation for damage to cultivation is not debitable to M. E. S. funds (see Financial Regulations for the Army in India).

(c) Stop Butts are not necessary in Artillery Ranges but splinter proofs on permanent ranges will be provided for by the M. E. S. The cost of leasing the land required for their construction (where necessary) will also be met from M. E. S. funds.

(d) When the incidence of the cost of any works required for Artillery Ranges is doubtful, the matter shall be referred to the G. O. of I.

81. Flagstaffs.

One fixed flagstaff may be provided in each of the cases where flags are authorised by Regulations for the Army in India.

82. Inspection Houses.

These are authorised, where necessary, for the use of officers and subordinates of the M. E. S.

83. Camps.**(a) Encamping Grounds.**

(i) These are provided as authorised works along frequented routes, and they are in M. E. S. charge. The cost of maintenance of works connected with camping grounds, including the cleaning of wells is debitable to 50—M. E. S., but the clearing of the grounds after they have been used by troops is the responsibility of the Units concerned.

(ii) The following works are required in connection with camping grounds:—

A covered in well with masonry watering trough for animals.

A "Bardasht Khana" (or enclosed forage and supply store rooms) where no town or large village bazaar is at hand.

A portion of the ground 30' x 30' reserved as a cemetery but not enclosed until actually required.

(b) Rest Camps.

(i) These are provided as authorised works (when required) near Railway Stations and on routes that are frequently used by small parties of troops or military families, at certain times of the year.

(ii) Any huts or permanent works erected for Rest Camps (and their maintenance) are debitable to 50—M. E. S.

(c) Artillery Practice Camps.

See para. 80.

(d) Mobilization Camps and Sidings.

These are unauthorised works.

All railway works require the previous sanction of the G. of I. (see Regulations for the M. E. S.).

(e) Indian Territorial Force Camps.

A permanent camp site is authorised for an Indian Territorial Bn.

84. Incinerators.

- (a) In Cantonments incinerators where required are constructed and maintained by the Cantonment Authority.
- (b) In places where troops are quartered, other than Cantonments, the M. E. S. are responsible for the construction and maintenance of incinerators. They will be provided on a scale of one incinerator per group of latrines.
- (c) When constructed for camps and manœuvres, as temporary measures, their cost is debitable to the Annual Training Grant.

85. Drains and Drainage.

- (a) All drains in connection with an authorised water borne sewage system are authorised works (see Regulations for the M. E. S.).
- (b) The general surface drainage and the construction of such pucca open channels in a Unit's lines as may be found necessary are authorised works.

86. Wells.

- (a) Where a piped water supply does not exist the construction of wells in Units' Lines for drinking water and for cook-houses is authorised (see Regulations for the M. E. S.).
Wells may also be constructed for watering horses [in which case water troughs—see para. 43 (d) should be provided near them] and for ablution rooms, lavatories, and soldiers gardens.

- (b) The maximum number of wells authorised for a Unit's Lines is 5 for a Cavalry Regt. or an Infantry Bn. Subject to the above limitation they will be provided for other Units as required.
- (c) Wells should have a raised masonry platform round them with a masonry drain to carry off the water. If there is no platform a protecting wall should be given to prevent the ingress of surface water and avert accidents.
Covers will be provided for all wells the water from which is used for drinking or cooking purposes.
- (d) Wells in the lines of Units in Cantonments and in authorised camping grounds (see para. 83) are provided, maintained, and cleaned, by the M. E. S.

87. Roads.

The metalling of the essential approach roads to the quarters of Officers, Lady Nurses, Departmental and Warrant Officers, and Married Other Ranks, whether in or outside a Unit's Lines, is authorised provided that the cost in each case does not exceed Rs. 1,000.

In all other cases the sanction of the G. of I. is required to the construction of a new metalled road in accordance with the rules laid down in Regulations for the M. E. S.

88. Fives Courts or Squash Racket Courts.

Fives Courts or Squash Racket Courts require the sanction of Govt. They are not to be provided in hutted camps.

(c) Dining Room.

Not to be provided for less than 4 beds.

For 4 to 5 beds—one room not exceeding 180 s. ft.

For 6 to 12 beds—one room not exceeding 288 s. ft.

For 13 beds and upwards—one room not exceeding 360 s. ft.

Fixtures authorised—Picture Rail.

(d) Ward Offices.

As laid down in para. 106 (f).

(e) Duty Room for Nurses—Area 180 s. ft.

Provided (in addition to the ordinary duty room for the main building) if the number of Officers' beds is 4 or above and in every case when the Officers' Block is separate from other wards.

A Bath Room will also be provided in the verandah.

Fixtures authorised:—

Duty Room—

2 shelf cupboards built into the wall, for linen and special equipment.

Bath Room—

1 Angle Wash Stand.

1 projecting shelf with 4 pegs or hooks underneath.

1 Towel Rail.

(f) Subsidiary Buildings.

(i) Bathing Annexes.

Single Wards for Infectious cases are each to have their own bath rooms in the verandah with fixtures as in sub-para. (i) above with the addition of a slipper bath.

Wards for Ordinary cases will have a separate bathing annex with a combined bath and dressing room for every four or fraction of four officers. Hot water apparatus will be provided to the extent necessary.

Fixtures authorised per bath and dressing room:—

1 Slipper Bath.

1 projecting shelf with 4 pegs or hooks.

1 towel rail.

Space will be provided in the bathing annexe for one portable bath.

A lavatory will also be provided with fixed or movable basins on a scale of one basin to not more than 4 officers.

(f) (ii) Latrine Annexe.

A separate annexe will be built for four or more officers.

Latrines will be provided on a scale of one for four officers or fraction of that number and urinals on a scale of 1 compartment per 10 officers or fraction of that number.

A bed pan cubicle and sweeper's room will be provided on the scales laid down in para. 106 (i) (i).

(iii) Kitchen.

Cooking for less than four officers will be carried out in the main kitchen of the hospital. For four officers or more a kitchen annexe will be provided on the scales laid down for an Officers Mess (see para. 13).

(iv) Servants Quarters and Baggage Room.

Only to be provided for four or more officers.

One "Class G" quarter (see para. 18) will be provided for every two officers or fraction of 2.

A combined baggage godown will be provided on a scale of 8 s. ft. per bed (minimum size 60 s. ft.).

(g) Verandahs.

Verandahs of clear width 12' in plains stations, 10' in semi-hill stations, and 8' in hill stations will be provided all round the main rooms [sub-paras. (a) to (e) above].

Bathing and Sanitary Annexes will have no verandahs.

105. Hospitals—Indian Officers' Wards and Subsidiary Buildings.

(a) Wards.

The number of beds authorised (for Indian Officers) is 3 per cent. of the total number of beds authorised by A. H. Q. for the hospital [see para. 102 (a)].

The accommodation provided will be similar to that in the main wards for Indian rank and file, whether it is in single bedded or in larger wards.

In hospitals where 3 beds or less are authorised they will be in single bedded wards, but where 4 beds or more are authorised there will be two single bedded wards and the remaining beds will be in one or more wards.

(b) Day Room.

Will be provided for all Indian Officers Blocks of 4 beds and over, at 200 s. ft.

(c) Ward Offices.

As laid down in para. 106 (f).

(d) Verandahs.

Verandahs of clear width 10' in plains stations, 9' in semi-hill stations and 8' in hill stations will be provided all round the main rooms [see sub-paras. (a) to (c) above].

(e) Dining Rooms and Kitchens.

- (i) Two dining rooms, each 100 s. ft., will be provided one for Hindus and the other for Mahomedans.

A verandah 7' wide will be provided on one side of the Dining Rooms and will be connected with the verandah round the wards by a covered way 4' wide.

A pucca platform with one water tap and proper drainage will be provided near each Dining Room for washing hands and feeding utensils.

- (ii) Cooking for Indian Officers will be done in the Kitchens provided for rank and file, see para. 109 (b).

(f) Bathing and Latrine Annexes.

These are authorised on the scales laid down in para. 106 (h) and 106 (i) except that the number of Bathing Cubicles and Latrines to be provided will be calculated as under—

1 Bathing Cubicle or 1 Latrine for 1 to 2 beds served.

2 Bathing Cubicles or 2 Latrines for up to 10 beds served.

Bathing Cubicles and Latrines at 20 per cent. of beds served for more than 10 beds.

106. Hospitals—Main and Detained Wards—British and Indian.

(a) Distribution of Accommodation, British Troops.

- (i) The total number of beds authorised for rank and file [see para. 102 (a)] is distributed as follows:—

Infectious and Isolation Wards (see paras. 116 and 117)—10 per cent.

Main Wards—82 per cent.

Detained Wards—8 per cent.

NOTE 1.—One Ward for enteric cases, one for dysentery cases, and one for venereal cases, will be set apart in each hospital.

(a) (i)—contd.

NOTE 2.—In the case of 5th Class Hospitals where the number of beds is 28 or under only one Ward will be provided and a Detained Ward will be omitted.

NOTE 3.—A Detained Ward is a Ward provided for the temporary accommodation of patients prior to their formal admission into hospital. The accommodation, offices, annexes, fixtures, etc., provided for a Detained Ward will be in all respects the same as for a Main Ward.

(b) Distribution of Accommodation, Indian Troops.

- (i) The total number of beds authorised for an Indian Military Hospital [see para. 102 (a)] is distributed as follows:—

	Per cent.
Indian Officers Wards (see para. 105)	3
Infectious and Isolation Wards (see paras. 116 and 117)	10
Main Wards	79
Detained Wards	8

NOTE 1.—One ward for enteric cases, one for dysentery cases and one for venereal cases will be set apart in each hospital.

NOTE 2.—In the case of 5th Class Hospitals where the number of beds is 28 or under only one Ward will be provided and a Detained Ward will be omitted.

NOTE 3.—As regards Detained Wards see sub-para. (a), Note 3 above.

(c) Accommodation comprised in a Main and in a Detained Ward.

A Ward consists of:—

- (i) One or more Ward Rooms—see sub-paras. (d) and (e) below.
- (ii) Ward Offices—see sub-para. (f) below.
- (iii) Verandahs round Ward Rooms and Ward Offices—see sub-para. (g) below.
- (iv) Bathing and Latrine Annexes—see sub-paras. (h) to (j) below.

(d) Number of Beds in Wards.

- (i) The maximum number of beds in separate Wards is to be 28. In cold stations Wards can be sub-divided by a cross wall.
- (ii) In the case of Wards of 15 beds and over, one small Ward of 4 beds should be provided, and in the case of Wards of 14 beds and under a small Ward of 2 beds should be provided.
The small ward should be of the full width of the main Ward and it should be separated by an archway and not a complete partition. The pillars of the arch should be sufficiently deep to effectively screen the patients in the small ward. The Ward offices should be placed on each side of the entrance corridor.

(e) Details of Wards.

Wards for the rank and file of British or Indian troops are constructed on the following scales.

(i) Single Ward—Floor area 168 s. ft.

(ii) Double Bedded Ward—Floor area 252 s. ft.

(iii) Wards containing more than two beds.

Width 24'.

Wall space from centre to centre of beds, 9' but increased to 10' in cases where a door intervenes between beds.

Wall space from centre of bed to end or cross wall $5\frac{1}{2}'$.

A window or door to be given on each side of each bed.

(iv) Fixtures authorised.

Boot and helmet lockers for British Troops or Boot and Pagree Lockers for Indian Troops, of suitable size built into the end walls.

(f) Details of Ward Offices.

(i) For Wards of 15 Beds or over.

	S. ft.
Duty Room	168
Pantry	112
Scullery	84

(ii) For Wards of 14 beds and under.

	S. ft.
Duty Room	168
Combined Pantry and Scullery	132

(iii) Fixtures authorised.

Duty Room—

1 stove.

2 shelf cupboards built into the wall for linen and medicines.

1 sink.

Pantry—

1 sink with hard wood grooved draining board.

1 milk safe built into the wall.

Racks for crockery over sink.

Shelving as required.

Scullery—

1 sink with hard wood grooved draining board.

1 plate rack over sink.

(f) (iii)—contd.

Combined Pantry and Scullery—

1 sink with hard wood grooved draining board.

Racks for plates and crockery over sink.

1 milk safe built into the wall.

Shelving as required.

(g) Verandahs.

Verandahs all round the Wards and Ward Offices will be provided as under:—

	Clear width of Verandah in:—		
	Plains.	Semi-hill.	Hill.
British Troops	12'	10'	8'
Indian Troops	10'	9'	8'

(h) Bathing Annexe.—For Wards of 15 beds and over.

(i) British Troops.

Bath Rooms 8' x 6' with slipper baths and hot water apparatus as required on a scale of 10 per cent. of the beds served (all fractions of half and over to count as one). Lavatory on scales laid down in para. 11 (b), with fixed basins at 20 per cent. of the beds served.

Soiled Linen Cubicle—32 s. ft. which will be sited so as to be accessible to the Nursing Staff.

(ii) Indian Troops.

Bathing Cubicles (see para. 24) and hot water apparatus as required on a scale of 8 per cent. of the beds served (fractions of half and over to count as one).

One tap for hand washing.

Soiled Linen Cubicle—32 s. ft. which will be sited so as to be accessible to the Nursing Staff.

NOTE.—One long portable bath will be provided by the I. A. O. C. per hospital for hydro-therapeutic purposes.

(i) Latrine Annexe—For Wards of 15 beds and over.

(i) British Troops.

Latrines [see para. 12 (b)] on a scale of 10 per cent. of beds served or 15 per cent. of beds served at hospitals where water is not laid on (all fractions of half and over to count as one).

(i) (i)—contd.

Urinals [see para. 12 (c)] on a scale of 6 per cent. of beds served (all fractions of half and over to count as one).

Bed pan cubicle—50 s. ft. Fixtures authorised:—Bed pan sink and bed pan cupboard in outside wall with external ventilation and racks.

Sweepers' Room—55 s. ft. Only authorised at those hospitals where water is not laid on. To be located under the external stairs in double storied blocks.

(ii) Indian Troops.

Latrines [see para. 25 (b)] on a scale of 10 per cent. of beds served or 15 per cent. of beds served at hospitals where water is not laid on (all fractions of half and over to count as one).

Urinals [see para. 25 (c)] on a scale of 6 per cent. of beds served (all fractions of half and over to count as one).

Bed-pan cubicle and Sweepers' Room as in (i) above.

(j) Combined Bathing and Latrine Annexe for Wards of 14 beds and under.

(i) British Troops.

Bath Rooms (minimum two).
Lavatory. } On the scales laid down in
sub-para. (h) (i) above.

Soiled Linen Cubicle.

Latrines [see para. 12 (b)]—2 seats.

Urinals [see para. 12 (c)]—1 compartment.

Bed Pan Cubicle and Sweepers' Room—As laid down in sub-para. (i) (i) above.

(ii) Indian Troops.

Bathing Cubicles (minimum two).
Soiled Linen Cubicle. } On the scales laid down in
sub-para. (h) (ii) above.

Latrines [see para. 25 (b)]—2 seats.

Urinals [see para. 25 (c)]—1 compartment.

Bed pan cubicle and Sweepers' Room—As laid down in sub-para. (i) (i) above.

(k) Wards for Venereal Cases will have the same accommodation as detailed above with the following exceptions:—

- (i) No Duty Room will be provided and the Ward Offices will consist only of a combined pantry and scullery 60 s. ft.

- (k) (ii) Lavage Units (each 8' x 3') on a scale to be authorised by A. H. Q. will be provided in the Latrine Annexe of a Venereal Ward.

NOTE.—Two cupboards fly-proof should be provided per enteric and dysentery ward which has not got a proper bed pan cubicle.

107. Hospitals—Anti-Syphilitic Room.

An Anti-syphilitic room of 96 s. ft. will be provided in all British and Indian Military Hospitals, with walls, floor, and ceiling, as for an operating theatre (see para. 110).

This room will be in the same building as the Venereal Wards.

108. Hospitals—Administration Block.

(a) Accommodation Authorised.

These will be provided as below in accordance with the general scales laid down in para. 29, sub-paras. (a) and (f):—

Accommodation Authorised.	For Military Hospitals.	
	British.	Indian.
	Units.	Units.
(i) Office for Officer Commanding	4	4
(ii) Office for Senior Assistant Surgeon*	4	4
(iii) Office for Matron or Senior Nursing Sister†	3	3
(iv) Clerks' Office—		
Hospitals of 50 to 100 beds	4	4
Hospitals of 100 to 200 beds	5	5
Hospitals of over 200 beds	7	5
(v) Record and Stationery Room (in verandah)	As required.	As required.
(vi) Medical Officers' Duty Rooms and Hospital Board Room—		
	S. ft.	S. ft.
Hospitals of 50 to 200 beds	256	256
Hospitals of over 200 beds	400	256

* In the case of Indian Military Hospitals for "Assistant Surgeon" read "Sub-Assistant Surgeon".

† In British Military Hospitals only to be provided in those hospitals where the appointment of a Senior Nursing Sister is authorised.

In Indian Military Hospitals to be provided in all hospitals of 151 beds and over where Nursing Sisters are employed.

(a)—contd.

Accommodation Authorised.	For Military Hospitals.	
	British. S. ft.	Indian. S. ft.
(vii) Assistant Surgeons' Duty Room*—		
Hospitals of 50 to 200 beds	256	256
Hospitals of over 200 beds	400	256
(viii) Assistant Surgeons' Bed Room*—		
Hospitals of 50 Beds and over	200	160
(ix) Nursing Sisters' Common Room†	256	—
(x) Lavatories—		
For all Medical Officers	80	80
For all Female Nursing Staff	80	80
For all Assistant Surgeons*	80	64

(b) Fixtures Authorised:—

For all Offices and Record and Stationery Rooms fixtures are authorised as laid down in para. 29 (f).

In addition the following fixtures are authorised:—

- (i) Medical Officers' Duty Room and Hospital Board Room—
1 shelf cupboard built into the wall with glass front for library.
- (ii) Assistant Surgeons' Duty Room—
1 shelf cupboard built into the wall.
- (iii) Assistant Surgeons' Bed Room—
1 projecting shelf with 4 pegs or hooks underneath.
- (iv) Nursing Sisters' Common Room—
1 picture rail.
Hooks or pegs as required.
- (v) Lavatories—
1 fixed angle wash stand.
1 Towel Rail.
1 projecting shelf with 4 hooks or pegs underneath.

* In the case of Indian Military Hospitals for "Assistant Surgeon" read "Sub-Assistant Surgeon".

† To be situated where most convenient. If in a separate building a verandah will be provided all round of 10' width in Plains and 8' in Semi-Hill and Hill Stations.

109. Hospitals—Dining Halls and Kitchens.

(a) British Troops.

Dining Halls and Kitchens will be provided on the scales laid down in paras. 9 and 10.

For Hospitals of 300 beds and over special scales will be given.

The number for determining the size of the Dining Hall will be 60 per cent. of the beds in the Main Wards.

The number for determining the size of the Kitchen will be the full number of beds to be served by the kitchen.

In addition to the above a Recreation Room will be provided of half the area of the Dining Hall; it should adjoin and communicate with the Dining Hall.

The following fixtures are authorised for the Recreation Room:—

1 picture rail.

1 shelf cupboard built into the wall.

(b) Indian Troops.

(i) For each 1st, 2nd and 3rd Class Hospital, three dining halls and kitchen sets will be provided; one for Hindus, one for Mahomedans, and one for others.

(ii) In each 4th and 5th Class Hospital, two sets will be provided; one for Hindus and the other for Mahomedans.

(iii) Each Dining Hall and Kitchen Set will consist of:—
A Dining Hall.

A pucca platform with one water tap and proper drainage, near the dining hall, for washing hands and feeding utensils.
A kitchen and scullery (including ration storage arrangements).

(iv) Dining Hall.

The total area authorised for all Dining Halls will be calculated at a rate of 12 s. ft. per bed for 60 per cent. of the beds in the Main Wards, with a minimum of 100 s. ft. for any one Dining Hall.

The area so obtained will be divided into three or two halls in accordance with (i) and (ii) above.

A verandah of clear width 8' will be provided along the back and front of each Dining Hall.

(v) Combined Kitchen and Scullery.

The total area for kitchens and sculleries will be calculated at a rate of 9 s. ft. per bed served with a minimum of 200 s. ft.

(b) (v)—contd.

The area so obtained will be divided into three or two combined kitchens or sculleries in accordance with (i) and (ii) above.

A verandah, clear width 7', will be provided along one side of each kitchen and a portion of this verandah (approximately one-tenth of the area of the kitchen) will be enclosed as a fuel store.

The following fixtures are authorised:—

Platform, etc., for Chulas, or Paxton Cookers as laid down in para. 23 (a).

Fixed Lockers for Cooks' Clothing in the kitchen verandahs.

For kitchens serving up to 17 beds a shelf cupboard built into the wall will be provided as a Ration Store.

For kitchens serving more than 17 beds an area of 20 s. ft. will be added to the area of the kitchen and a ration store of 20 s. ft. will be partitioned off in the kitchen.

NOTE.—These combined Kitchens and Sculleries must be provided with pucca floors.

110. Hospitals—Operating Theatres and Operating Rooms.**(a) Operating Theatre.**

May be authorised by A. H. Q. for either a British or an Indian Military Hospital. It comprises the following accommodation:—

(i) Theatre—400 s. ft.

To have North Light with window area on a scale of 1 s. ft. glass to $2\frac{1}{2}$ s. ft. of floor area of the Theatre.

Windows to be provided with outside shutters or rollers and brackets to take blinds to modify the light, and the lower panes to be of frosted glass.

(ii) Sterilizing Room—174 s. ft., opening direct into the Theatre, with an annexe 64 s. ft. on the verandah to house a high pressure steriliser. The annexe communicates by means of a hatch with the Sterilizing Room. Its size depends on the size of the high pressure sterilizer.**(iii) Anaesthetic Room—206 s. ft. opening direct into the Theatre.****(iv) Preparation Room for Staff—186 s. ft.****(v) Surgeons' Consulting Room—169 s. ft.****(vi) Splint Room—59 s. ft.**

(a) (vii) Stock Room—59 s. ft.

(viii) Boiler Room—80 s. ft.

(ix) Verandah, clear width 8', to be given on three sides.

(x) Fixtures authorised:—

Sterilizing Room . . .	Sink. Marble or slate shelving as required.
Preparation Room for staff.	2 fixed wash basins with water mixing system and foot taps. Glass and marble shelves as required.
Surgeons' Consulting Room.	Lavatory basin. Shelving as required.
Splint Room	Shelving as required.
Stock Room	Shelving as required.

(xi) Doors—all sliding doors to be slung overhead.

(b) Operating Room.

May be authorised by A. H. Q. either in a British or in an Indian Military Hospital. It comprises the following accommodation:—

(i) Operating Room 224 s. ft.

To have North Light with window area on a scale of 1 s. ft. of glass to $2\frac{1}{2}$ s. ft. floor area of the room. Windows to be provided with outside shutters or rollers and brackets to take blinds to modify the light, and the lower panes to be of frosted glass.

(ii) Combined Preparation Room for staff and sterilizing room—140 s. ft.

(iii) Verandah, clear width 8', to be given on three sides only.

(iv) Fixtures authorised:—

Combined Preparation Room for staff and sterilizing room.	Glass and marble shelves as required. 1 sink. 1 washing basin with water mixing system and foot taps.
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111. Hospitals—X-Ray Department and Electro-Therapeutic Department.

(a) (i) A combined X-Ray and Electro-therapeutic Department may be authorised by A. H. Q. for either a British or an Indian Military Hospital.

(ii) The following accommodation will be provided in a separate block adjacent to the Operating Theatre Block:—

	Square Feet.
X-Ray Room	480
Developing Room	131
Viewing Room	178
Electro-therapeutic Room	480
Store Room	151
Waiting Rooms for—	
Women and children	78
British troops	80
Indian troops (in Verandah)	80
Office (must not be next to the X-Ray Room)	110
Lavatory	60

(iii) Verandah, clear width 8', on four sides.

(iv) An Engine and Battery Room—400 s. ft.—will also be provided, if required; it may be placed anywhere within convenient wiring distance.

The Battery Room should be entirely shut off from the Engine Room and there should be no direct means of communication between the two rooms. The switchboard should not be in the Battery Room.

(v) Fixtures authorised:—

X-Ray Room	Blinds.
Developing Room	A sink and a drying board.
Electro-therapeutic Room.	A sink.
All Rooms	Shelving as required.
Lavatory	One fixed wash-basin.

(b) (i) An X-Ray Department may be authorised by A. H. Q. for either a British or an Indian Military Hospital.

- (b) (ii) The following accommodation will be provided in a separate block adjacent to the Operating Theatre Block:—

	Square Feet.
X-Ray Room	420
Developing Room	190
Viewing Room	102
Store Room	142
Waiting Rooms for—	
British personnel	94
Indian personnel (in Verandah)	80
Office (must not be next to the X-Ray Room)	160

- (iii) Verandah, clear width 8', on four sides.

- (iv) An Engine and Battery Room will be provided, if required, as in sub-para. (a) (iv) above.

- (v) Fixtures authorised:—

As for corresponding rooms in sub-para. (a) (v) above.

NOTE.—In certain stations where much X-Ray work is being done a special store will be built with the approval of A. H. Q. for storage of films. It should be an isolated structure and designed so as to afford protection from the sun.

112. Hospitals—Clinical Side Room.

A Clinical Side Room—256 s. ft.—is authorised for hospitals of 50 beds and over.

It should have a North Light to the Main window, and no verandah on that side.

A bench along North side with sink and shelving as required will be provided.

A verandah, clear width 8', is to be given on one side only.

113. Hospitals—Central Latrines.

- (a) Main out-door Latrine for Rank and File—British and Indian Military Hospitals—will be provided as under when no water-borne sewage system exists:—

- (i) Latrines—see paras. 12 (b) and 25 (b).

On a scale of 5 per cent. of the number of beds in the main wards.

- (a) (ii) Urinals—see paras. 12 (c) and 25 (c).

On a scale of $1\frac{1}{2}$ per cent. of the number of beds in the main wards.

- (b) Followers' Latrines.

Provided on the scales provided in para. 25.

114. Hospitals—Out-patient Block.

The Out-Patient Block in either a British or an Indian Military Hospital will comprise the following accommodation:—

- (a) Waiting Room.

On a scale of 2 s. ft. per bed with a minimum of 144 s. ft.

- (b) Consulting Room—256 s. ft.

Authorised for all hospitals of 26 beds and over. When a "Special Case Block" (see para. 115) is not authorised a Dark Room (64 s. ft.) will also be provided.

- (c) Minor Surgery and Dressing Room.

On a scale of $1\frac{1}{2}$ s. ft. per bed with a minimum size of 256 s. ft. and a maximum size of 320 s. ft.

Fixtures authorised:—

1 sink.

Shelving as required.

- (d) Sterilizing Room—120 s. ft. (in verandah).

Only in those hospitals where no Operating Room is authorised.

Fixtures authorised:—

Glass Shelf.

1 sink.

1 basin.

- (e) Dispensary.

On a scale of $1\frac{1}{2}$ s. ft. per bed with a minimum size of 144 s. ft.

Fixtures authorised:—

1 sink.

Shelving as required.

- (f) Combined Store for Medical Stores, Dressings, and Splints, also for Field Service Equipment.

(f)—contd.

To be provided on a scale of 2 s. ft. per bed with a minimum size of 100 s. ft.

Fixtures authorised:—

Shelving or three tier racks [see para. 35 (c)] as required.

(g) Verandah.

	Clear width.	
	Plains.	Semi-Hill and Hill.
British Troops	10'	8'
Indian Troops	8'	8'

115. Hospitals—Special Case Block.

(a) A Special Case Block may be authorised by A. H. Q. in selected stations in either a British or an Indian Military Hospital.

(b) It may comprise the whole or part of the following accommodation:—

(i) Waiting Rooms.

One for British and one for Indian patients, each 144 s. ft.

(ii) Dental Operating Room—256 s. ft. (see Note).

(iii) Dental Mechanics' Room and Store—256 s. ft. (see Note).

(iv) Dental Office—160 s. ft.

(v) Eye Specialist's Room—352 s. ft. (see Note).

Containing a Dark Room, 80 s. ft., for use of both eye and ear specialists.

(vi) Ear, Nose, and Throat Specialist's Room—256 s. ft.

(vii) Minor Surgery Room (see Note)—256 s. ft., with Sterilizing Room, 120 s. ft., attached.

To be built on the same scales and with the same fixtures as are authorised for an Operating Room and Sterilizing Room [see para. 110 (b)].

(viii) Recovery Rooms.

One for British and one for Indians, each 144 s. ft.

Each to be provided with a lavatory, 64 s. ft., containing one urinal, one latrine or commode, and one hand washing basin.

(b) (ix) Lavatory—80 s. ft. (in verandah).

For use of Medical Staff.

Authorised fixtures—

1 fixed angle wash stand.

1 towel rail.

1 projecting shelf with hooks or pegs underneath.

(x) Verandah.

On three sides (excluding North).

Clear width 10' in plains stations, 9' in semi-hill stations and 8' in Hill stations.

NOTE.—The Dental Room, Dental Mechanic's Room, and Eye Specialist's Room are to have large windows with North Lighting. Shelf cupboards built into the wall are authorised as fixtures.

116. Hospitals—Infectious Block.

(a) General Arrangements.

(i) The Infectious Block will be situated in an Infectious Area, properly fenced off and at a distance from any part of the Main Hospital.

(ii) The number of beds in the block will be as laid down in para. 106 (a) (i) and 106 (b) (i).

The maximum number of beds in any ward should be six.

(iii) The scale below is a guide to the arrangement of the wards from a 4 to a 28 bedded infectious block.

Number of beds in Infectious Ward Block.	Single Bedded Wards.	Two Bedded Wards.	Four Bedded Wards.	Six Bedded Wards.	Set of Ward Offices.
28	4	...	3	2	4
24	4	...	2	2	4
20	4	...	4	...	3
16	4	...	3	...	3
12	4	...	2	...	2
8	4	...	1	...	2
6	2	2	...	...	1
4	4	...	...	...	1

(f)—contd.

To be provided on a scale of 2 s. ft. per bed with a minimum size of 100 s. ft.

Fixtures authorised:—

Shelving or three tier racks [see para. 35 (c)] as required.

(g) Verandah.

	Clear width.	
	Plains.	Semi-Hill and Hill.
British Troops	10'	8'
Indian Troops	8'	8'

115. Hospitals—Special Case Block.

(a) A Special Case Block may be authorised by A. H. Q. in selected stations in either a British or an Indian Military Hospital.

(b) It may comprise the whole or part of the following accommodation:—

(i) Waiting Rooms.

One for British and one for Indian patients, each 144 s. ft.

(ii) Dental Operating Room—256 s. ft. (see Note).

(iii) Dental Mechanics' Room and Store—256 s. ft. (see Note).

(iv) Dental Office—160 s. ft.

(v) Eye Specialist's Room—352 s. ft. (see Note).

Containing a Dark Room, 80 s. ft., for use of both eye and ear specialists.

(vi) Ear, Nose, and Throat Specialist's Room—256 s. ft.

(vii) Minor Surgery Room (see Note)—256 s. ft., with Sterilizing Room, 120 s. ft., attached.

To be built on the same scales and with the same fixtures as are authorised for an Operating Room and Sterilizing Room [see para. 110 (b)].

(viii) Recovery Rooms.

One for British and one for Indians, each 144 s. ft.

Each to be provided with a lavatory, 64 s. ft., containing one urinal, one latrine or commode, and one hand washing basin.

(b) (ix) Lavatory—80 s. ft. (in verandah).

For use of Medical Staff.

Authorised fixtures—

1 fixed angle wash stand.

1 towel rail.

1 projecting shelf with hooks or pegs underneath.

(x) Verandah.

On three sides (excluding North).

Clear width 10' in plains stations, 9' in semi-hill stations and 8' in Hill stations.

NOTE.—The Dental Room, Dental Mechanic's Room, and Eye Specialist's Room are to have large windows with North Lighting. Shelf cupboards built into the wall are authorised as fixtures.

116. Hospitals—Infectious Block.

(a) General Arrangements.

(i) The Infectious Block will be situated in an Infectious Area, properly fenced off and at a distance from any part of the Main Hospital.

(ii) The number of beds in the block will be as laid down in para. 106 (a) (i) and 106 (b) (i).

The maximum number of beds in any ward should be six.

(iii) The scale below is a guide to the arrangement of the wards from a 4 to a 28 bedded infectious block.

Number of beds in Infectious Ward Block.	Single Bedded Wards.	Two Bedded Wards.	Four Bedded Wards.	Six Bedded Wards.	Set of Ward Offices.
28	4	...	3	2	4
24	4	...	2	2	4
20	4	...	4	...	3
16	4	...	3	...	3
12	4	...	2	...	2
8	4	...	1	...	2
6	2	2	...	...	1
4	4	...	...	...	1

(b) Scales of Accommodation.

- (i) Wards to be as laid down in para. 106 (e).
- (ii) Ward Offices to be as laid down in para. 106 (f), clauses (ii) and (iii).
- (iii) Verandahs to be as laid down in para. 106 (g).
- (iv) Combined Bathing and Latrine Annexes.

Each ward for 4 beds or over to be provided with a Combined Bathing and Latrine Annexe as laid down in para. 106 (j) except that the soiled linen cubicle will be omitted and a Central Soiled Linen Room (50 s. ft. with steeping tank) provided for the whole block.

Each single bedded or two bedded ward to have its own bath room 64 s. ft. in verandah.

A separate Orderlies' or Nurses' Bath Room 50 s. ft. to be provided in the verandah.

The above bath rooms will be provided with fixtures as under:—

- 1 slipper bath with hot water apparatus as required (British Troops only).
- 1 shower (Indian Troops only).
- 1 water closet where water-borne sewage system exists.
- 1 angle wash stand } British Troops only.
- 1 towel rail }
- 1 projecting shelf with 4 hooks or pegs underneath.

(v) Kitchens, sculleries, and fuel stores—British Troops.

These are authorised on the scales laid down in para. 109 (a) (omitting Dining Halls and Recreation Rooms).

These kitchens will also serve Isolation Blocks and the infectious nursing staff.

(vi) Kitchens, sculleries, and fuel stores—Indian Troops.

These are authorised on the scales laid down in para. 109 (b) (omitting Dining Halls but including Pucca Platforms for washing hands and feeding utensils).

These kitchens will also serve Isolation Blocks and the infectious nursing staff.

(c) Accommodation for Nursing orderlies and Menial personnel.

- (i) A bed room will be provided for the nursing orderlies and they will have their meals in the Duty Room. Special bath rooms are provided in the verandah for their use [see sub-para. (b) (iv) above].

Their food is to be supplied from the attached kitchen.

- (ii) In Infectious Blocks up to 16 beds, quarters (Class G) for one cook, one bhistic, and one sweeper should be provided, and in blocks of over 16 beds, quarters for two of each of the above.

In both cases one latrine seat for Indian personnel [see para. 25 (b)] will be provided.

117. Hospitals—Isolation Block.

(a) General Arrangements.

Isolation Wards are to be single bedded and each in a separate block. In hospitals of 150 beds or less one such block is to be provided. In hospitals of over 150 beds two such blocks are to be provided.

Isolation Blocks are to be kept entirely separate from the main hospital and from one another and each block will be surrounded by a fence.

(b) Scales of accommodation for each Isolation Block.

- (i) One single bedded ward—168 s. ft.—to be as laid down in para. 106 (e).
- (ii) Ward offices and verandahs to be as laid down in para. 106, sub-paras. (f) and (g).
- (iii) One Bath Room for the patient (50 s. ft.) to be provided in the verandah as laid down in para. 116 (b).
- (iv) As regards kitchen accommodation see para. 116 (b) (vi) and (c) (i).
- (v) A bed room will be provided for the Nursing orderlies with a bath room in the verandah. They will take their meals in the duty room.
- (vi) The class G quarters (see para. 103) for such personnel as are essential will be provided in a separate block. Also one latrine seat for Indian personnel [see para. 25 (b)].

118. Hospitals—Laundry Blocks, British and Indian.

(a) Laundry Block (Ordinary Type) for hospitals of 101 beds and over. Authorised, where a steam laundry is not provided, on the following scales:—

(i) Receiving Room— $1\frac{1}{2}$ s. ft. per bed—Maximum size 200 s. ft.

(ii) Washing Room—3 s. ft. per bed.

(iii) Drying Room—2 s. ft. per bed.

(iv) Ironing Room—2 s. ft. per bed.

(v) Issue Room— $1\frac{1}{2}$ s. ft. per bed—maximum size 200 s. ft.

(vi) Office—150 s. ft.

Communicating with receiving and issue room.

(vii) Clothing Boiling Room and Coal Stores—as required.

(viii) Dhobi Ghat—1 stone for 25 beds.

(b) Laundry Block (Ordinary Type) for hospitals of up to 100 beds. Authorised, where a steam laundry is not provided, on the following scales:—

(i) Ironing and Drying Room—3 s. ft. per bed—Minimum size 144 s. ft.

(ii) Clothing Boiling Room and Coal Store—as required.

(iii) Dhobi Ghat—1 stone for 25 beds—Minimum 2 stones.

(c) Steam Laundry.

Steam laundries, to serve both British and Indian Military Hospitals will be located where authorised by A. H. Q.

They will comprise the following accommodation:—

(i) Receiving Room for British Linen— $1\frac{1}{2}$ s. ft. per bed—Maximum size 200 s. ft.

(ii) Receiving Room for Indian Linen— $1\frac{1}{2}$ s. ft. per bed—Maximum size 200 s. ft.

(iii) Receiving Office—150 s. ft.

120. Hospitals—Store Rooms.

(a) British Military Hospitals.

Name of Store.	HOSPITAL BED		
	50 beds and under.	Beds 51-100.	Beds 101-150.
1. Store-keeper's office . . . . .	..	120 s. ft.	120 s. ft.
2. Bedding and clean linen store (w)	6 s. ft. per bed, includes store-keeper's office.	5 s. ft. per bed, minimum 300 s. ft.	4½ s. ft. per bed, minimum 500 s. ft.
3. Steward's and dry ration store	4 s. ft. per bed.	3 s. ft. per bed, minimum 200 s. ft.	2½ s. ft. per bed, minimum 300 s. ft.
4. Extra store (x)	150 s. ft.	200 s. ft.	250 s. ft.
5. Pack store	1½ s. ft. per bed, minimum 100 s. ft.		
6. Soiled linen store	1½ s. ft. per bed, minimum 80 s. ft.	1½ s. ft. per bed, minimum 80 s. ft.	1½ s. ft. per bed.
7. Oil and lamp store	80 s. ft.	80 s. ft.	100 s. ft.
8. Meat and vegetable store (y) . . . . .	..	140 s. ft.	140 s. ft.
9. Main fuel store (z)	1 s. ft. per bed, minimum 100 s. ft.		

(w) A brick platform to be provided for airing bedding, etc., and re-stuffing mattresses, minimum 20' x 20'.

(x) For storing unserviceable articles, packing cases, chairs, mosquito poles, etc.

(y) For receipt, inspection, and distribution of all fresh food.

(z) Situated in any convenient part of the compound away from the main stores.

STRENGTH.

	Beds 151-200.	Beds 201-250.	Beds 251-300.	Beds 301-350.	Beds 351-400.	
I	253 s. ft.	250 s. ft.	250 s. ft.	250 s. ft.	250 s. ft.	1
II	1 s. ft. 100 100 s. ft. 100 100 s. ft.	25 s. ft. 100 100 s. ft. 100 100 s. ft.	25 s. ft. 100 100 s. ft. 100 100 s. ft.	25 s. ft. 100 100 s. ft. 100 100 s. ft.	25 s. ft. 100 100 s. ft. 100 100 s. ft.	2
III	1 s. ft. 100 100 s. ft. 100 100 s. ft.	2 s. ft. 100 100 s. ft. 100 100 s. ft.	2 s. ft. 100 100 s. ft. 100 100 s. ft.	2 s. ft. 100 100 s. ft. 100 100 s. ft.	2 s. ft. 100 100 s. ft. 100 100 s. ft.	3
IV	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	4
V		100 s. ft. 100 100 s. ft. 100 100 s. ft.				5
VI	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	6
VII	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	7
VIII	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	100 s. ft.	8
IX						9

(b) Indian Military Hospitals.

Name of Stores.	HOSPITAL BED		
	50 beds and under.	Beds 51-100.	Beds 101-150.
1. Store-keeper's office . . . .	..	120 s. ft.	120 s. ft.
2. Bedding and clean linen store (r) .	6 s. ft. per bed, including store-keeper's office.	5 s. ft. per bed, minimum 300 s. ft.	4½ s. ft. per bed, minimum 500 s. ft.
3. Steward's and dry ration store .	4 s. ft. per bed.	3 s. ft. per bed, minimum 200 s. ft.	2½ s. ft. per bed, minimum 300 s. ft.
4. Extra store (s)	150 s. ft.	200 s. ft.	250 s. ft.
5. Pack store	1½ s. ft. per bed, minimum 100 s. ft.		
6. Soiled linen store	1½ s. ft. per bed, minimum 80 s. ft.	1½ s. ft. per bed, minimum 80 s. ft.	1½ s. ft. per bed.
7. Oil and lamp store	80 s. ft.	80 s. ft.	100 s. ft.
8. Meat and vegetable store (t) .	..	140 s. ft.	140 s. ft.
9. Main fuel store (u)	1 s. ft. per bed, minimum 100 s. ft.		

(r) A brick platform to be provided for airing bedding, etc., and re-stuffing mattresses, minimum 20'×20'.

(s) For storing unserviceable articles, packing cases, ehicks, mosquito poles, etc.

(t) For receipt, inspection, and distribution of all fresh food. To be arranged so that beef, mutton, and vegetables are kept separate to avoid caste susceptibility.

(u) Situated in any convenient part of the compound away from the main store.

STRENGTH.

	Beds 151-200.	Beds 201-250.	Beds 251-300.	Beds 301-350.	351 beds and over.	
1	256 s. ft.	256 s. ft.	256 s. ft.	256 s. ft.	256 s. ft.	1
2	4 s. ft. per bed, minimum 675 s. ft.	3½ s. ft. per bed, minimum 800 s. ft.	3½ s. ft. per bed.	3½ s. ft. per bed.	3½ s. ft. per bed.	2
3	2½ s. ft. per bed, minimum 375 s. ft.	2 s. ft. per bed, minimum 450 s. ft.	2 s. ft. per bed.	2 s. ft. per bed.	2 s. ft. per bed.	3
4	300 s. ft.	300 s. ft.	300 s. ft.	350 s. ft.	400 s. ft.	4
5	1½ s. ft. per bed, minimum 100 s. ft.					5
6	200 s. ft.	200 s. ft.	200 s. ft.	200 s. ft.	200 s. ft.	6
7	100 s. ft.	120 s. ft.	120 s. ft.	150 s. ft.	150 s. ft.	7
8	140 s. ft.	240 s. ft.	240 s. ft.	240 s. ft.	240 s. ft.	8
9	1 s. ft. per bed, minimum 100 s. ft.					9

NOTE 1.—Verandah on one side will be provided of clear width 8' in plains stations and 6' in semi-hill and hill stations.

NOTE 2.—Shelving or three-tier racks [see para. 35 (c)] as required are authorised as fixtures.

121. Hospitals—Mortuary and Post-Mortem Room.

- (a) A Mortuary and a post-mortem room are authorised for all hospitals, both British and Indian. The area of the mortuary will be 150 s. ft. and that of the post-mortem room 225 s. ft.
- (b) Fixtures authorised for the Post-mortem room—
 - 1 sink.
 - Shelving as required.
- (c) A verandah, clear width 8', will be given in front of both mortuary and post-mortem room.

122. Hospitals—Miscellaneous.

- (a) Incinerators.
Stoves for burning dejecta will be constructed in every hospital compound.
- (b) Enclosure Walls.
Authorised only for plains stations.
Should be brick walls $2\frac{1}{2}'$ to 4' high. A fence is always to be within 100 feet of it. fence (usual if hospital)

123. British

- (a) General.
See para.
- (b) Scales authorised
 - (i) Wards.
These will
of beds authorised

(b) (ii) Other accommodation.

Other accommodation will be provided as follows:—

Ward Offices—as laid down in para. 106 (f).

Verandahs—as laid down in para. 106 (g).

Bathing and Latrine Annexes—as laid down in para. 106, sub-paras. (h), (i) and (j).

Kitchens—as laid down in para. 109.

NOTE.—The necessity for the provision of dining halls will be decided by A. H. Q.

124. Family Hospital.**(a) General Arrangements.**

The number of beds to be provided will be authorised in each case by A. H. Q.

The maximum for any one ward should be 6 beds.

The scale below is a guide to the arrangement of the wards from a 6 to a 32 bedded Family Hospital:—

Hospital Beds.	Single bedded wards.	Two bedded wards.	Four bedded wards.	Six bedded wards.	Infectious Block Wards [see sub-paragraph (f) below].
32	6	2	2	2	2
28	6	3	2	1	2
24	6	1	2	1	2
20	6	1	1	1	2
16	4	1	2	...	2
12	4	1	1	...	2
8	2	1	...	...	2
7	2	2	...	...	1
6	3	1	...	...	1

(b) Main Wards and Annexes.**(i) Main Wards.**

Will be constructed as laid down in para. 106 (e).

The wards will be allocated as Ordinary Wards, Maternity Wards, or Gynæcological Wards, in accordance with requirements.

(b) (ii) Ward Offices.

One set of Ward Offices as laid down in para. 106 (f) will be provided for the whole hospital. In cases where the design of the buildings necessitates two wings or double storeys, one set of Ward Offices will be provided for each wing or storey.

The Duty Room of the Ward Offices will also serve as a dispensary for medicines.

(iii) Bathing and Latrine Annexes.

Bathing and Latrine Annexes or a combined bathing and latrine annexe will be provided on the scales laid down in para. 106, sub-paras. (h) to (j).

(iv) Cubicle for washing infants' clothes—100 s. ft.

Fixtures—

Sink.

Shelving as required.

(c) Kitchen.

Kitchens (but not dining halls) will be provided for the number of beds authorised for the hospital on the scales laid down in paras. 9 and 10.

(d) Special Accommodation.

The following special accommodation, in addition to that specified above, is authorised for a Family Hospital:—

(i) Dressing Room—120 s. ft.

To be provided for all four and six bedded wards.

Fixtures authorised—Hooks or pegs as required.

(ii) Labour Room—300 s. ft.

To be adjacent to the Maternity Wards.

A latrine annexe with one seat will be attached to the Labour Room.

(iv) Medical Officers' Consulting Room—256 s. ft.

Fixtures—

Cupboard in wall.

A sink.

(iv) Medical Officers' Consulting Room—256 s. ft.

Fixtures authorised—

1 shelf cupboard built into the wall.

Shelving as required.

(d) (v) Combined Day and Dining Room.

20 s. ft. per bed (minimum 256 s. ft.) with servery and pantry
100 s. ft. in the verandah.

Fixtures authorised—

Picture rail.

Hatches into the servery as required.

(vi) Nurses' Rooms.

A bed-sitting room, dressing room, and bath room are authorised on the scales laid down for a Lady Nurse in paras. 2 (e) and 3 (b). These are only required in hospitals which are not staffed by the Queen Alexandra's Imperial Military Nursing Service.

(vii) Gynæcological Room—224 s. ft.

Sterilizing Room—140 s. ft.

These will be provided adjacent to the Gynæcological Wards. The scales, etc., will be as laid down for an Operating Theatre (see para. 110).

The Gynæcological Room will be used as an Operating Room when necessary.

(viii) Lavatories and Latrines.

Medical Officers' Lavatory and Latrine (combined)—64 s. ft.

Nurses' Lavatory—80 s. ft.

These are usually provided in verandah.

Fixtures authorised—

1 fixed angle wash stand.

1 towel rail.

1 projecting shelf with 4 pegs or hooks underneath.

(ix) Kit Store Room—8 s. ft. per bed.

Fixtures authorised—Shelving as required.

(x) Linen and Bedding Room—5 s. ft. per bed—Minimum 100 s. ft.

Fixtures authorised—Shelving as required.

(xi) Verandahs.

Except as otherwise specified below verandahs all round the rooms enumerated in this sub-para. will be of clear width 12' in plains stations, 9' in semi-hill stations and 8' in hill stations.

Verandahs will not be provided on the North side of the Gynæcological and Sterilizing Rooms. In the case of Store Rooms [see (ix) and (x) above] a verandah will be provided along one side only of clear width 8' in plains stations and 6' in semi-hill and hill stations.

(c) Servants' Quarters.

Servants' quarters (Class G) will be provided on the following scale:—

(i) Hospitals of up to 16 beds.

For one Ayah, one Cook, one Bhistic, and one Sweeper.

(ii) Hospitals of 17 beds and more.

For two Ayahs, two Cooks, two Bhisties, and two Sweepers.

NOTE.—One latrine seat for Indian personnel [see para. 25 (b)] will be provided.

(f) Infectious Block.

Beds allotted in sub-para. (a) above to the Infectious Ward Block will be provided as single bedded wards on the scales as laid down in para. 116.

125. Laboratories.

(a) Command and certain District Laboratories.

Southern Command Laboratory at Poona, and District Laboratories at Quetta, Rawalpindi, Murree (in Summer) and Meerut, will be provided as under:—

Serial No.	Description.	Size s. ft.	Fittings to be provided.
	<i>Main Building.</i>		
(i)	Working room—General .	576	North side to be all glass from 3' up. A bench along North side with 2 large sinks. 1 wash-hand stand. 1 lock-up cupboard (with shelves) in East wall. Benches and shelves along South and East sides.
(ii)	Room for Officer-in-charge .	138	A wash-hand stand. 1 lock-up cupboard (with shelves) on West wall. North window to be all glass fixed. A bench along North side with one large sink. 1 swing window in East wall at end of bench.

(a)—contd.

105

Serial No.	Description.	Store a. H.	Fittings to be provided
Main Building—contd.			
(iii)	Office		
(iv)	Sterilizing room	138	A lock-up cupboard with in wall.
(v)	Media room (to be built next to the General Working room).	172	Table, Office chairs, etc. The Office in charge.
		172	Benches and shelves in wall.
(vi)	Washing-up room		A fixed cupboard in wall with shelves.
		138	Two sinks with hot and cold water.
(vii)	Glass and chemical room		A lock-up cupboard in wall in wall.
	Wing.	138	Benches and shelves in wall.
(viii)	Bio-chemical room:		
		405	A large lock-up cupboard with shelves in wall.
			A small lock-up cupboard with shelves in wall.
			A cupboard in wall with shelves.
			A bench and a stool in wall with a cupboard.
(ix)	Weighing and filtering room:		
			A bench along wall.
			A cupboard in wall.
(x)	Room for fume cupboard, Muffle furnace, etc.		
	Wing.		
(xi)	Waiting room		
(xii)	Dark room		
(xiii)	Store room		
(xiv)	Veranda. An 8' veranda to be provided on both ends and south of General Work- ing room.		

(a)—concl'd.

Serial No.	Description.	Size s. ft.	Fittings to be provided.
	<i>Annexe.</i>		
	(18' clear of the main building.)		
(xv)	Lavatory and water closet (Officers).	42	
(xvi)	Lavatory and water closet .	42	
(xvii)	Animal houses. (A 5' passage to be provided between the two houses.)	Two, each 120	Low wide shelves (to take cages) along 2 sides. Upper shelves to be 2' above lower ones.
(xviii)	Unpacking Room (at either end of the Animal House and to have one door in the side facing the main building).	120	One row of shelves all round.

(b) District Laboratories.

District Laboratories [at stations other than those mentioned in sub-para. (a) above] will be provided as under:—

Serial No.	Description.	Size s. ft.	Fittings to be provided.
	<i>Main Building.</i>		
(i)	Working room—General .	To be provided and fitted as in sub-para. (a) above.	
(ii)	Room for Officer-in-charge .		
(iii)	Office		
(iv)	Sterilizing room		
(v)	Media room (to be built next to the General Working room).		
(vi)	Washing-up room	138	Two rows of shelves along 3 sides (shelves 2' apart).
(vii)	Store room		
(viii)	Verandah, 8' wide, to be provided on 3 sides.		
	<i>Annexe.</i>		
	(18' clear of the main building.)		
(ix)	Lavatory and Water Closet (Officers).	To be provided and fitted as in sub-para. (a) above.	
(x)	Lavatory and Water Closet .		
(xi)	Animal houses (with a 5' passage between the two houses).		
(xii)	Unpacking Room (at either end of the Animal House, and to have one door in the side facing the main building).		

(c) Brigade Laboratories.

Brigade Laboratories will be provided as under:—

Serial No.	Description.	Size s. ft.	Fittings to be provided.
<i>Main Building.</i>			
(i)	Working room—General .	256	North side to be all glass from 3' up. A bench along North side with 2 large sinks. 1 wash-hand stand. A bench along South side. A lock-up cupboard (with shelves) in East wall.
(ii)	Sterilizing room	192	As required by the Officer-in-charge.
(iii)	Media and washing-up room	192	Benches along North and South walls. A fixed cupboard with glass shelves. Shelves along East and South walls. Two sinks.
(iv)	Office	130	A lock-up cupboard (with shelves) in wall.
(v)	Store room	80	Shelves along two sides.
(vi)	Verandah, 8' wide in front .	..	....
<i>Annexe.</i>			
(18' clear of main building.)			
(vii)	Animal house	120	Low wide shelves (to take cages) along two sides.
(viii)	Unpacking Room (at either end of the Animal House, and to have one door in the side facing the main building).	120	One row of shelves all round.

(d) Laboratories—Special Fittings, etc.

Water must always be laid on to a Laboratory.

All angles in General Working rooms, Sterilizing rooms, Media rooms, and Officer-in-Charge's rooms will be rounded.

All doors, windows, and other openings will be fly-proofed.

Windows in Media Rooms will be permanently closed.

(d)—contd.

The following special fittings will be provided:—

- (i) Electric fittings as required for lighting, microscope work, and fans.
- (ii) The usual tap fittings over all wash-hand basins.
- (iii) One triple brass tap over each of the two sinks in the General Working rooms.
- (iv) One triple brass tap and one large ordinary tap over one of the two sinks in Bio-chemical Room.
- (v) Two large separate taps over all other sinks.

-
- (b) (v) The Fodder Store will be provided with a trellis work door 10' wide.
- (vi) A Liberty Paddock is authorised for all Veterinary Hospitals, Class I. Its size should not exceed 300' x 150'. It will be enclosed by wooden posts and rails and gates, and divided by a fence into two portions.
- (vii) Doors should be provided to Loose Boxes, ordinary, for Sick Lines at stations where no Veterinary Hospital is authorised or exists, or for Branch Veterinary Hospitals. No other loose boxes or stalls should be provided with doors.
- (c) Special fittings, etc., in operating theatre.
- A suitable sink with water laid on.
- A second water tap to take a hose pipe for flushing purposes.
- A cupboard close to the sink.
- Operation pit 5' x 3' x 3' covered with wooden bed with steps at one end.



(c)—contd.

(ii) Semi Hill.

Dehra Dun, Ghoom.

(iii) Hill.

Almora, Chakrata, Chaubattia, Gyantse, Jalapahar, Kailana, Katapahar, Landour, Lansdowne, Lebong, Naini Tal, Ranikhet, Shillong, Takdah, Yatung.

(d) WESTERN COMMAND.

(i) Plains.

Ahmedwal, Dalbandin, Drigh Road, Gumbaz, Harnai, Hyderabad, Karachi, Kundi, Manora, Miralikhel, Moghalkot, Sibi, Sukkur.

(ii) Semi Hill.

Ashgara, Babar, Chaman, Fort Sandeman, Gurlama, Hindubagh, Kapip, Killa Saifulla, Lakaband, Loralai, Manikhwa, Maratangi, Mastung, Murgha, Musakhel, Nushki, Peshin, Quetta, Sanjawi, Saragandi, Shellabagh, Spinwana, Zaroza, Zara.

(c) BURMA DISTRICT.

(i) Plains.

Bhamo, Mandalay, Meiktila, Mingladon, Port Blair, Rangoon, Shewbo, Thayetmyo.

(ii) Semi Hill.

Maymyo.

APPENDIX B.

Grouping of Buildings.

(a) The ordinary amenities have to be considered in the lines of a Unit—thus:—

- (i) The quarters of Indian Officers should be grouped together, say on one flank and across a road or open space from the rest of the lines. The Indian Officers' Club might also be placed in this neighbourhood.
- (ii) Married Men's quarters should be well separated from the Single Men's barracks and the Followers' quarters.
- (iii) The barracks and other buildings for each Coy. or other tactical subdivision of a Unit should be grouped together to facilitate administration.
- (iv) The Quarter Guard and Regimental Offices should be grouped together in a prominent position near the main way of approach to the Lines and quite apart from the Barracks.
- (v) Mosques, Gurdwaras, and other religious buildings, should be so sited as not to interfere unduly with each other. They can often be located to a flank of the lines but should not be near the Followers' quarters or latrines. They should be near a water supply.
- (vi) Rifle Ranges should be near the Men's Barracks.

(b) It is desirable to avoid the erection of numerous detached buildings of small plinth areas.

All stores and other small buildings which are necessarily sited near one another should, therefore, be grouped into one building as far as possible, thus effecting economy in construction and reduction in the number of sentries required.

The following are examples of suitable groups:—

British Troops.

Quartermaster's Store Rooms, tailors' shops and Quartermaster's office.

Indian Troops.

- (i) Squadron or Company ration stores to be included in the Company Cook-House Block.
- (ii) Quartermaster's Store Rooms, Regimental Ration Stores, Mobilization Equipment Stores, Reservists' Kit Store Rooms, Recruits' Clothing and Equipment Store Rooms and Baggage Rooms.
- (iii) Quarter Guard, Armouries, Magazines and Explosive Stores, Stores for rifles of reservists.
- (iv) Grain, Hay and Bhoosa Stores, Harness and Saddle Rooms.

APPENDIX C.

Heights of Buildings.

HEIGHTS OF BUILDINGS AND NOTES REGARDING CEILINGS AND ROOFS, VENTILATION, ETC.

- (a) For the purposes of this Appendix the heights of all buildings (except where otherwise stated) are measured from floor to ceiling or, in the case of a building with a pent roof where there is no ceiling or where the ceiling follows the slope of the roof, from floor to top of wall plate or bed plate.

Any building which is not specifically mentioned in sub-para. (c) below or which has not been given a special height in this Synopsis will be classified under the "Class" [see sub-para. (b) below] which appears to be most nearly applicable.

- (b) For the purpose of the determination of height, the most common types of buildings are divided into the following classes:—

Class.	Plains.	Semi-Hill.	Hill.
	Ft.	Ft.	Ft.
A	16	14	12
B	16	13	10
C	13½	11	10
D	12	10	10
E	10	9	9

The heights given above are minimum heights which may not be reduced without the concurrence of the Medical Authorities; they may be increased to the minimum necessitated by engineering reasons, such as:—

- (i) Where verandahs have pent roofs, and particularly where clerestory windows have to be provided above pent verandah roofs.
- (ii) Where electrically driven punkahs are to be installed.
- (iii) Where a building of a lower class forms a part of a block containing buildings of a higher class. In such cases, unless a change of height can be arranged, the minimum height of the block will be that of the highest class building contained therein.

NOTE.—Heights are not given for verandah rooms.

(c) The classification of the buildings referred to in this Synopsis is as follows:

Paras.	Pages.	Building.	Classification or Height
1 to 6	1 to 27	British type quarters—	
		Main Buildings, Classes I to X	A
		Kitchen Blocks, Classes I to VI	E
		" " " VII to X	E (Note 2)
		Coach houses or garages	9'
		Stables	9'
		Saddle Rooms—Plains	9'
		" " —Hills	8'
		British Troops' Barracks and Subsidiary Buildings—	
7	28 & 29	Barrack Rooms	B
7	28	Single Sergeants' Quarters	B
7	28	" " Bath Rooms—Semi-Hill	10'
7	28	" " " " —Hill	9'
9	30	Dining Hall	B
9	31	Cook House	E
11	33 & 34	Wash Houses and Baths	D
12	35 & 36	Latrines, Urinals and Sweeper's Room	7½'
13 and 15	37 to 42	Officers and Sergeants' Messes—	
		Main Building	A
		Kitchen Block	E
18	46 to 49	Indian type quarters—	
		Living or Sitting Rooms—Classes A to F	C
		Living Room—Class G	D
		Cooking Place—Classes A, C, and D	7½'
		Bathing Places—Classes A, C, and D	7½'
		Latrine—Classes A and C to F	7½'
		Darbar Hall—Class A	

(c)—contd.

Paras.	Pages.	Building.	Classification or Height.
		Indian Troops' Barracks and Subsidiary Buildings—	
21	51	Barrack Rooms	C
21	51	Single N. C. O.'s Quarters	C
21	51	Barracks Rooms for Single Followers	C
23	52	Cooking Sheds	7½'
24	53	Bathing Places	7½'
25	53 & 54	Latrines and Urinals	7½'
		Institutes—British Troops, Main Rooms	B
26	56 to 59	„ „ „ Caterers Qrs.	B
		„ „ „ Kitchen Block	E
27	62	Prayer Rooms—British Troops	B
28	63—65	Schools—British Troops and Children	B
28	63—65	„ —Indian Troops	C
29	66—69	Offices	B
		Guard Room and Guard Detention Room—British Troops.	B
30	70 and 71	Provost Sergeant's quarter—British Troops	B
		Barrack Detention Room—British Troops	A
30	71	Night Picquet Guard Room—British Troops	B
31	72—73	Quarter Guards and Detention Rooms—Indian Troops.	C
31	73	Night Picquet Guard Room—Indian Troops	C
33	74	Plunge Baths	E
34	77	Target Huts	9'
35	78—80	Quartermaster's Stores, etc.	D
36	81	Ration Stores	D
37	82	Laundry Clothing Store Room	13½'
38	82 & 83	Magazines and Explosive Stores	E
39	83	Armouries (if not verandah rooms)	E
40	85	Armourers' Shops for British Artificers	B

(c)—contd.

Paras.	Pages.	Building.	Classification or Height.
40	85	Armourers' Shops for Indian Artificers . . .	C
41	86 & 87	Trades Workshops for British Artificers . . .	B
41	86 & 87	„ „ „ Indian „ . . .	C
42	88	Voluntary Workshops — British Troops . . .	B
43	89	Stables (clear height to eaves) . . .	7½'
44	90 & 91	Harness Rooms—British Troops . . .	B
44	90 & 91	„ „ —Indian Troops . . .	C
45	91 & 92	Grain, Hay, and Bhoosa Stores . . .	E
47	93	Forges for British Farriers . . .	B
47	93	„ „ Indian Farriers . . .	C
47	93	Shoeing Shed (clear height to eaves) . . .	7½'
48	94	Vehicle Sheds . . .	11'
49	94	Gun Sheds . . .	10'
50	95—98	Garages . . .	13½'
50	99	Technical Shops { Plains . . .	16'
		{ Semi-Hill . . .	13'
		{ Hill . . .	12'
50	100	Store Rooms . . .	13'
51	102	Petrol Store Rooms . . .	E
52	103	Drill Halls . . .	B
52	103	Drill Sheds (open shed) . . .	Note F
53	103	Indian Officers' Club . . .	C
53	104	Durbar Shed . . .	10'
53	104	Medical Inspection Rooms—Indian Troops . . .	C
54	104	Technical Stores . . .	E
54	104	Spar Shed (open shed) . . .	Note 1
54	105	Technical Schools . . .	C
55	105	Technical Stores . . .	E
55	105	Spar Shed (open shed) . . .	Note 1

(c)—contd.

Paras.	Pages.	Building.	Classification or Height.
56	106	Technical Stores	E
56	106	Technical Schools—Lecture Rooms, Battery Rooms, Telephone Exchange Rooms and other Rooms.	B
56	106	Technical Schools—Open Sheds	Note 1
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70	114	Theatres	16'
71	115	Gymnasia and Fencing Schools	16'
		Bread Store	10'
		Wheat or Flour Store	10'
		Wheat Cleaning Shed	10'
		Soojee Store	10'
73	116 to 118	Ovens	Open Shed (note 1)
		Kneading Room	C
		Yeast Room	10'
		Fuel Store Shed	9'
		Bullock Shed	9'
74	118	Meat Hanging Shed	Note 1

(c)—contd.

Paras.	Pages.	Buildings.	Classification or Height.
101	131	All Wards and Ward Offices	A
to	to	Bathing and Latrine Annexes—British Troops .	D
121	161	" " " " Indian Troops .	E
		Kitchen Blocks—British Troops	D
		" " —Indian Troops	E
103	133	Technical School—Dispensary and Lecture and Instruction Shed.	C
103	133	Medical Store	C
104	134	British Officers' Wards—Sitting and Dining Rooms.	A
104	135	" " " —Duty Room for Nurses .	A
105	136 & 137	Indian Officers' Wards—Day Rooms and Dining Rooms.	C
107	142	Anti-Syphilitic Room—British	B
107	142	" " " —Indian	C
108	142 & 143	Administration Block	B
109	144 & 145	Dining Halls—Indian Troops	C
110	145 & 146	Operating Theatre and Operating Room . .	16'
111	147 & 148	X-Ray Department and Electro-Therapeutic Dept.	16'
112	148	Clinical Side Room	B
113	149	Out-Patient Block	B
114	150	Special Case Block	B
118	154 & 155	Laundries	16'
119	155	Disinfecting Block	C
120	156—159	Store Rooms	E
121	160	Mortuary and Post Mortem Room.	16'
124	162	Dressing Rooms, Medical Officers' Consulting Room	B
124	163	Combined day and Dining Room	
124	162	Labour Room	A
124	163	Gynæcological Room and Sterilizing Room . .	16'
124	163	Kit Store Room and Linen and Bedding Room .	E

(c)—contd.

Paras.	Pages.	Building.	Classification or Height.
125	164—167	Laboratories—Main Building	B
125	166 & 167	Laboratories—Annexes	D
126			
127			
128			
129			
130			
131			
132			
133			
134			
135			
136			
137			
138			
139			
140			
		Veterinary Hospitals—Main Buildings except Sling Boxes and Stalls.	
		“ “ —Sling Boxes	10½'
		“ “ —Stalls.	10½'
		“ “ —Isolation Boxes	B
	174	“ “ —Operating Theatre	10'
141	to	“ “ —Ambulance Shed	10'
	177	“ “ —Fodder Store	E
		“ “ —Main Grain Store	E
		“ “ —Boiling House and Store	8½'
		“ “ —Drug Store	8½'
		“ “ —Quartermaster's Store	D

(c)—concl'd.

Paras.	Pages.	Building.	Classification or Height.
141	174 to 177	Veterinary Hospitals—Ration Store	D
		" " —Mobilization Store	D
		Sick Lines for Camel Transport Coys. Pharmacy .	D
		" " " " " " Store	D
		" " " " " " Stalls	10½'
		Sick Lines or Branch Veterinary Hospitals—Pharmacy, Store and Loose Boxes.	8'

NOTE 1.—Open Sheds will normally be constructed with a clear height of 7½' to the eaves, but this height may be varied to suit the purpose for which the shed is required.

NOTE 2.—These buildings will be provided with a ceiling and ridge ventilation.

- (d) Ceilings should be provided under pent roofs in all buildings of Classes A, B, and C, and in such other buildings as the Medical Authorities may consider the provision of ceilings to be a necessity.
- (e) Ventilation of buildings must always be provided for, consideration being given to the following points:—
- (i) Clerestory windows will be provided in all buildings with flat roofs. They will be built as close as possible to the under side of the main roof.
 - (ii) In plains stations clerestory windows will be provided close under the ceilings of pent roofs.
 - (iii) In hill stations clerestory windows are not essential with pent roofs, but ventilation should be provided through the ceiling into the roof space and by means of fanlights over doors, windows in gable walls, etc.
 - (iv) The roof spaces of pent roofs must always be well ventilated.
 - (v) Ventilation should be provided at the highest point of the verandah roof in order to prevent the collection of foul or hot air under the verandah roof.
 - (vi) In buildings of more than one storey ventilation or ventilating windows should be provided close under the ceilings in all storeys.

APPENDIX D.

Scales for Water Supplies.

(See para. 89, Regulations for the M. E. S.)

1. SCALES OF WATER.

- (a) Owing to the diverse conditions of climate, humidity, etc., which exist in India, it has been recognised that it is impracticable to prescribe a fixed scale for the supply of water to all army personnel entitled to a free supply at the expense of the State.

Local scales for the supply of water for domestic purposes (i.e., for drinking, cooking and washing) will be sanctioned by G. O. C. Dists. for each station in the district area subject to the following restrictions:—

- (i) That the expenditure on the supply of the quantities of water authorised can be financed from funds available locally.
 - (ii) That the scales provide the minimum consistent with the health and comfort of the troops, regard being had to the local climatic conditions.
 - (iii) That maximum scales are only sanctioned when water can be made available in abundant quantities at little or no extra cost, e.g., gravity supplies.
 - (iv) That the scales are based on the general type scales given in sub-para. (d) below.
- (b) It is to be clearly understood that units, etc., cannot demand a supply up to the scale prescribed by the G. O. C. Dists. Circumstances may render such a supply impossible at times.
- (c) G. O. C. Dists. will be responsible that the troops under their command are always supplied with at least the absolute minimum of water required for domestic use. In case of failure of the main supply, they are authorised to ensure the minimum supply by arranging for the transport of water from other sources or, in the last resort, by moving the troops to other areas.
- (d) The following are the scales for the supply of water for domestic purposes, in gallons per diem, referred to in sub-para. (a) (iv) above:—

Class.	ABSOLUTE MINIMUM CONSISTENT WITH HEALTH.		NORMAL QUANTITY.		Absolute Maximum.
	Hot season in plains.	Hills.	Hot season in plains.	Hills.	
British officers, W. O.'s, rank and file living in quarters; also the wives and adult members of their families, lady nurses and all persons ranking as such.	8	7	40	30	50

(d)—contd.

Class.	ABSOLUTE MINIMUM CONSISTENT WITH HEALTH.		NORMAL QUANTITY.		Absolute Maximum.
	Hot season in plains.	Hills.	Hot season in plains.	Hills.	
British N. C. O.'s, British other ranks living in bar- racks, and all persons ranking as such.	5½	4½	24	18	30
Indian officers, Indian rank and file living in quarters; also the wives and adult members of their families, and all persons ranking as such.	4½	3½	20	15	30
Indian rank and file living in barracks and all persons ranking as such.	4½	3½	15	12	20
Followers including the wives and adult members of their families.	4½	3½	12	10	15
Animals (horses, mules, etc.)	..	..	12	10	15

NOTE 1.—In each class the scale for children to be assessed at one half of the scale fixed for adults.

NOTE 2.—For convenience, entitled as well as non-entitled persons have been included in the scales which give the normal maxima used by such persons. As non-entitled persons pay for water used, they may be supplied with any quantity provided there is no water shortage.

NOTE 3.—Nothing in these scales is to be taken as an authority as to who are entitled and who are non-entitled persons. The list of such persons is given in the Regulations for the M. E. S.

2. AUTHORISED CONNECTIONS.

Piped Water Supplies may be laid on to buildings, etc., under the orders of C. F. A., up to the scales given below.

Para.	Page.	Building, etc.	Number of Taps.
		British Type Quarters—	
		Per Compound	1
		Per bath room	1
		Add per bath room if shower provided . . .	1
		Add per bath room if hot water laid on . . .	1

2—contd.

Para.	Page.	Building, etc.	Number of Taps.
		<div> <div> Kitchens, Cookhouses Panties, Sculleries Hospital Buildings </div> <div> } Per Sink </div> </div>	1
	General.	<div> Lavatories, Wash Houses, Cloak Rooms, Dressing Rooms, etc.— </div> <div> Per bath </div> <div> Per shower bath </div> <div> Per fixed basin </div> <div> Per two loose basins </div>	1 1 1 1
7	28	British Troops Barracks—For every 50 men or fraction thereof (in verandah).	1
18	46	Indian Type Quarters—per quarter	1
		NOTE.—In the case of blocks of quarters one tap per block only may be necessary (e.g., for followers' quarters).	
21	51	Barracks for Single Followers—Per Block	1
23	52	Indian Troops Barracks—Per cooking shed	1
		NOTE.—Fixed on washing-up platform	
24	53	Indian Troops Barracks—Per bathing cubicle	1
29	66	Offices—Per Bath Room	1
30	70	Quarter Guard and Detention Room—British Troops.	1
31	72	Quarter Guard and Detention Room—Indian Troops.	1
33	74	Plunge Bath. (Size as required)	1
40	85	Armourers Shop	As required in connection with authorised fittings and fixtures.
41	86	Trades Workshops—Per Block of Workshops	1
43	88	Stables and standings—Per water trough (size as required).	1
50	93	Garages—Per washing platform (plain taps to take armoured hose with slip on union of 1" internal diameter).	2
58			
59			

2—contd.

Para.	Page.	Building, etc.	Number of Taps.
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
72	116	Dhobi Ghats	} As required.
73	116	Bakeries	
74	118	Slaughter House	1
74	119	Cattle and Sheep Yards—Per water trough (size as required).	1
75	119	Dairies and Butter Factories	} As required.
87	—	Outside stand-posts for road watering, etc.	
	—	Manufacturing Establishments	
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

2—concl'd.

Para.	Page.	Building, etc.	Number of Taps.
105	136	Indian Officers' Dining Rooms—Washing Platform .	1
106	140	Indian Troops Bathing Annexe for Wards of 15 beds and over.	1
106	142	Lavage Units	As required.
107	142	Anti-Syphilitic Room	Do.
109	144	Indian Troops Dining Halls—Washing Platform .	1
110	145	Operating Theatre and Operating Room (Military hospitals).	As required.
115	150	Special Case Block	Do.
118	154	Laundry Blocks	Do.
119	155	Disinfecting Block	Do.
125	164	Laboratories	Do.
126			
127			
128			
129			
130			
131			
132			
133			
134			
135			
136			
137			
138			
139			
141	174	Pharmacy	1
141	176	Operating Theatre (Veterinary hospitals) . .	1
141	176	Boiling Room	As required.
141	177	Irrigation Stand	Do.
141	177	Water Troughs (size as required)	Do.

NOTES.—(1) Where sanitary fittings are authorized, water will be laid on to these and taps on the scales above will not be provided in addition.

(2) In cases of supplies where water is cut off for long periods in the day, small Iron Cisterns fitted with ball cocks and taps should be provided for each barrack, cookhouse, or lavatory, at about 1 gallon per man in barracks and $1\frac{1}{2}$ gallons per man for cookhouses and lavatories. Where these cisterns are provided there should be no other tap at the building from which water could be drawn as it is important to have the water constantly renewed to prevent stagnation. The cisterns must be capable of being covered in such a manner as to render them mosquito proof.

(3) Where the provision of a piped hot water supply is approved, additional taps as required for such installations may be provided.

(4) Except where the size is "as required" taps should normally be $\frac{3}{4}$ ". Where water pressure is high $\frac{1}{2}$ " taps are sufficiently large.

APPENDIX E.

Scales of Electric Lighting, Ventilation, etc.

(See para. 90, Regulations for the M. E. S.)

(These scales will be published separately.)

APPENDIX F.

- (a) Type Plans will be prepared in the E.-in-C.'s office and will be numbered so as to follow as closely as possible the arrangement by paras. of this Synopsis.
- (b) The number of a Type Plan will be made up as follows:—
The Barrack Synopsis para. number—
followed by the Barrack Synopsis sub-para. letter—
followed by a number 1, 2, or 3, etc., indicating the number of the Type Plan relating to that Barrack Synopsis sub-para.
For example:—
The Type Plans for a Class VI Departmental Officer's Quarters in Plains, Semi-Hill, and Hill, will be numbered 2 (f) 1, 2 (f) 2, and 2 (f) 3, respectively.
- (c) If not required the sub-para. letter may be omitted from the Type Plan number.
For example:—
The various Type Plans for Institutes—British Troops will be numbered 26-1, 26-2, 26-3, etc.
- (d) Where a single Type Plan deals with more than one para., both numbers will be given to the Type Plan.
For example:—
The Type Plan for an Indian Troops Cooking Shed with a Company Ration Store attached will be numbered 23-1/36-1.
The combining of Type Plans in this manner should be avoided as far as possible.
- (e) Type Plans of a general nature which do not refer to any particular paras. (e.g., Jay out of Infantry Bn. Lines) will be numbered consecutively—200, 201, 202, etc.

NOTE.—Type Plans are intended to illustrate the manner in which the various rooms, etc., authorised by Barrack Synopsis (India) can be suitably arranged.

Provided that the plinth areas, heights, etc., laid down in Barrack Synopsis (India) are not exceeded there is no obligation to follow the exact arrangements given in the Type Plans, and these arrangements may be altered as necessary to conform with local conditions.

Type Plans are not to be taken as an authority for any dimensions, etc., for which the sole authority will be Barrack Synopsis (India). Before using a Type Plan it is therefore necessary to check the Plan with the relative para. of Barrack Synopsis (India).

APPENDIX G.

Miscellaneous Items.

(a) Biggs' Arm Racks.

Biggs' pattern arm racks are authorised and will be provided as fixtures for all British Troops, Military Prisons, Detention Barracks, and for Indian Troops where Armouries are not provided.

Petty repairs to these arm racks will be carried out by the European artificers of the Units; otherwise the repairs will be done by the M. E. S.

(b) Fireplaces.

Fireplaces will be provided in stations where fuel is authorised. They will also be provided in quarters for officers, lady nurses, subordinates, etc., at all other stations where it is the local practice to provide fireplaces in private houses.

(c) Punkahs and Fans.

Hand Punkahs are being replaced by electric fans and electric punkahs in barracks and quarters.

Where hand punkahs still exist they are classified as furniture, only the fixed hooks or rings in the ceiling being fixtures.

Inexpensive shelters should be made for punkah coolies where they have to work in exposed situations.

In the case of Electric Punkahs the fringes are classed as furniture, and the remainder of the apparatus is classed as a fixture.

(d) Fly Proof Doors and Windows.

Wire gauze doors and wire gauze coverings for windows and other openings are authorised for:—

All Hospital Wards and Cookhouses.

Cookhouses of British Troops, Officers, and Messes. The verandah in front of the Kitchen Block of an officer's mess and the passage connecting it with the main building.

They may also be provided at the discretion of administrative authorities for other buildings such as Bakeries, Slaughter Houses, etc.

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